



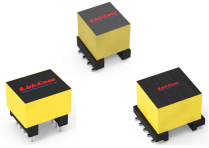
LinkCom Manufacturing Co., Ltd

*[www.linkcom.com.tw](http://www.linkcom.com.tw)*

Magnetics Provider

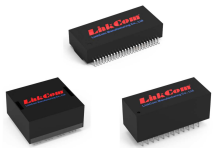
## Products Summary

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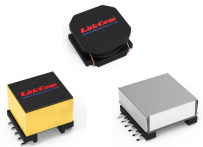
### Telecom

Being a magnetic component manufacturing and telecom industry leader, LinkCom continue to grow and develop with integrated circuits vendors. We provide optimized solution for size, performance, and costs including ADSL, ADSL2+, VDSL, VDSL2, G.fast, Smart DAA etc.



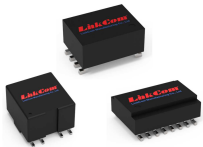
### LAN Transformers

LinkCom's LAN transformers, modules, filters, are full compliance with IEEE802.3 and ANSI X3.263 standards. We offer both PoE, PoE+, and PoE++ products.



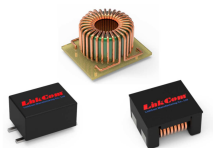
### Power Magnetics

LinkCom provides customized switching power transformers, inductors, PFC Inductor, Line filter, current sense transformer, gate drive transformers and so on.



### PLC Transformers

LinkCom works with chip vendors for HomePlug®, G.hn, G3-PLC...etc.



### EMI/RFI Filters

LinkCom provides common mode, differential mode and also dual mode noise suppression. Commonly used in automotive, telecom, industrial...etc.



### RF Transformers

LinkCom has plenty of balun transformers for impedance matching which are also suitable for DOCSIS3.0, DOCSIS3.1 and further.

# Index

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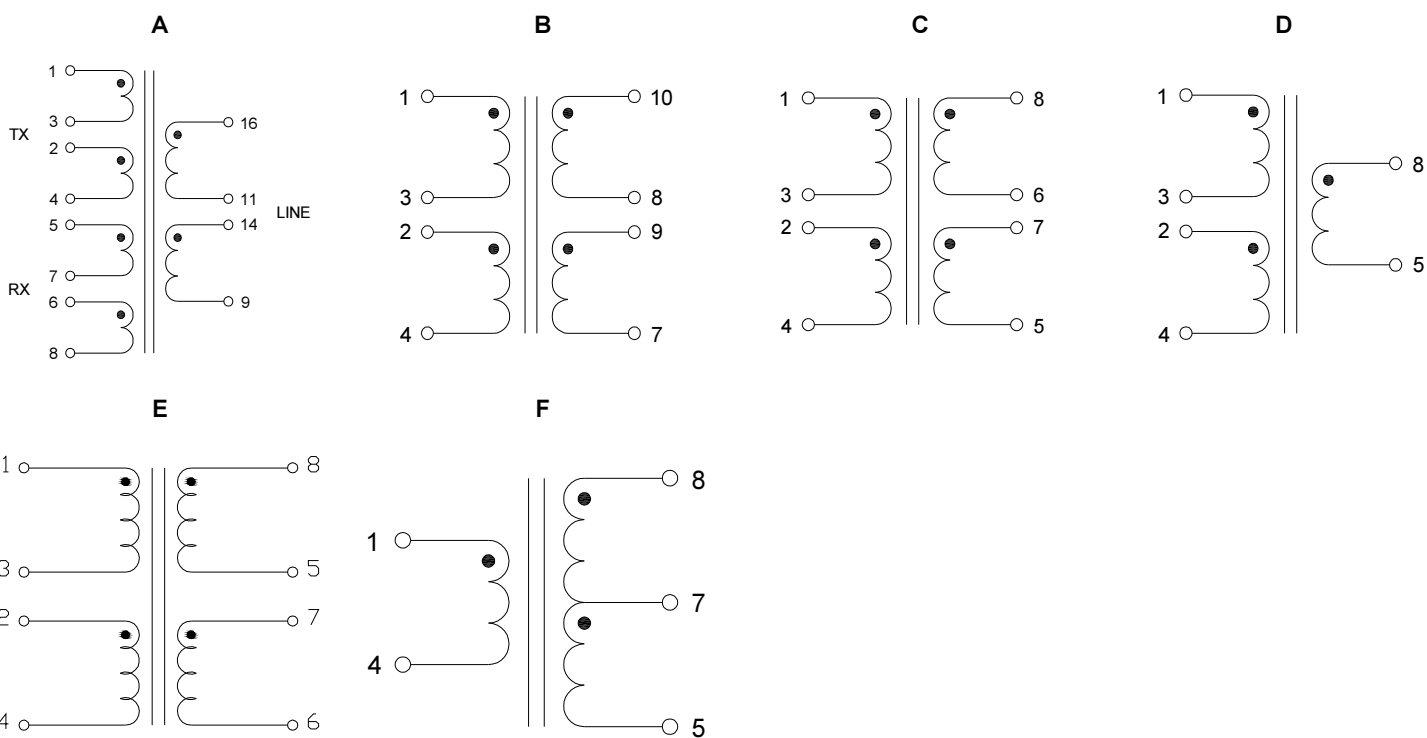
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## DSL Applications - Broadcom

| IC Number        | LinkCom Part Number | Application | Location | Annex | 6KV Surge | Schematic | Dimension |
|------------------|---------------------|-------------|----------|-------|-----------|-----------|-----------|
| BCM63168/148/168 | LAL0665-53          | ADSL        | CPE      | -     | No        | A         | #1        |
| BCM63168/148/168 | LAL2020-51          | ADSL        | CPE      | -     | No        | A         | #2        |
| BCM96368         | LAL0560-50          | VDSL2       | CPE      | A     | No        | A         | #1        |
| BCM96368         | LAL2620-50          | VDSL2       | CPE      | A     | Yes       | A         | #2        |
| BCM63138/148/168 | LAL0562-50          | VDSL2       | CPE      | A     | No        | B         | #3        |
| BCM63138/148/168 | LAL0562-60          | VDSL2       | CPE      | A     | Yes       | B         | #3        |
| BCM63138/148/168 | LAL0573-50          | VDSL2       | CPE      | B     | No        | B         | #3        |
| BCM63138/148/168 | LAL0573-60          | VDSL2       | CPE      | B     | Yes       | B         | #3        |
| BCM63138/148/168 | LAL0575-50          | VDSL2       | CPE      | B/J   | No        | B         | #3        |
| BCM63138/148/168 | LAL0575-60          | VDSL2       | CPE      | B/J   | Yes       | B         | #3        |
| BCM63138         | LAL1038-60          | VDSL2       | CPE      | C     | Yes       | C         | #5        |
| BCM63138/148     | LAL1275-50          | VDSL2 RNC   | CPE      | -     | No        | E         | #5        |
| BCM63138/148     | LAL1276-50          | VDSL2 RNC   | CPE      | -     | No        | E         | #5        |
| BCM63381         | LAL0572-50          | VDSL2       | CPE      | A     | No        | B         | #3        |
| BCM63381         | LAL0572-60          | VDSL2       | CPE      | A     | Yes       | B         | #3        |
| BCM63381         | LAL0576-50          | VDSL2       | CPE      | B/J   | No        | B         | #3        |
| BCM63381         | LAL0576-60          | VDSL2       | CPE      | B/J   | Yes       | B         | #3        |
| BCM63138         | LGT1502-50          | G.fast      | CPE      | -     | No        | C         | #6        |
| BCM63138         | LGT1502-60          | G.fast      | CPE      | -     | Yes       | C         | #6        |
| BCM6524x         | LGT0500-50          | G.fast      | CO       | -     | No        | C         | #6        |
| BCM6524x         | LGT1500-50          | G.fast      | CO       | -     | No        | C         | #6        |
| BCM63138         | LGT1502-50          | G.fast      | CPE      | -     | No        | C         | #6        |
| BCM63138         | LGT1502-60          | G.fast      | CPE      | -     | Yes       | C         | #6        |
| BCM63158         | LGT0105-60          | Balun       | CPE      | -     | Yes       | F         | #7        |
| BCM63158         | LGT2507-50          | G.fast      | CPE      | -     | No        | D         | #4        |
| BCM63158         | LGT0502-50          | G.fast RNC  | CPE      | -     | No        | C         | #6        |
| BCM63158         | LGT1512-60          | G.fast      | CPE      | -     | Yes       | C         | #6        |

## DSL Applications - Broadcom

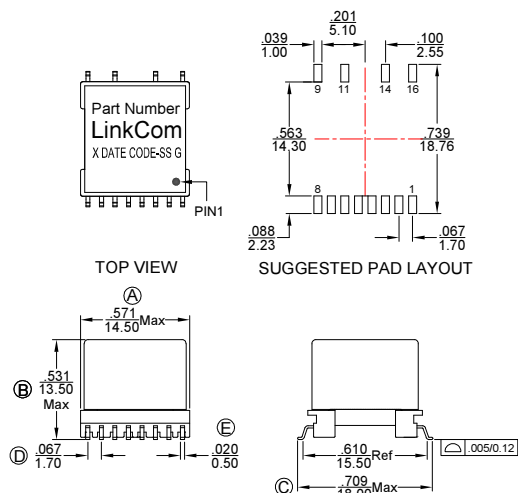
### Schematics:



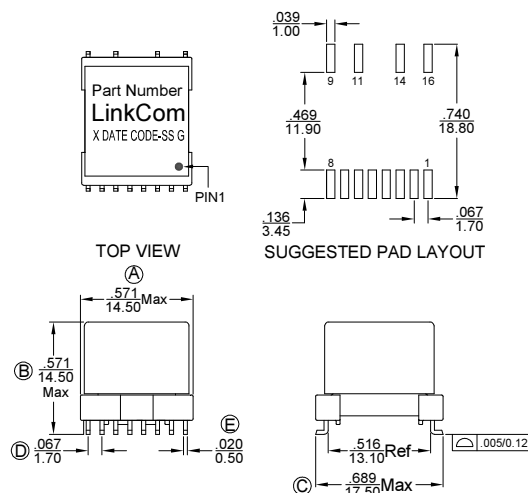
# DSL Applications - Broadcom

**Dimension:** (Units:  $\frac{\text{Inches}}{\text{mm}}$ )

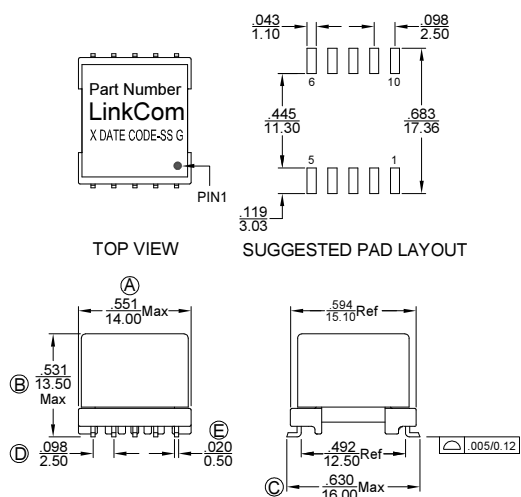
**#1(EP-13)**



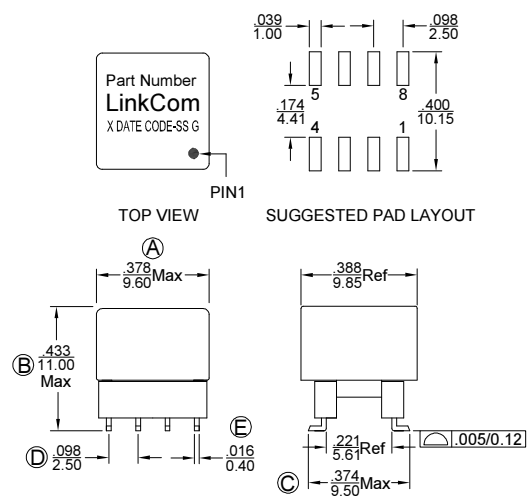
**#2(EP-13-L)**



**#3(EP-13)**

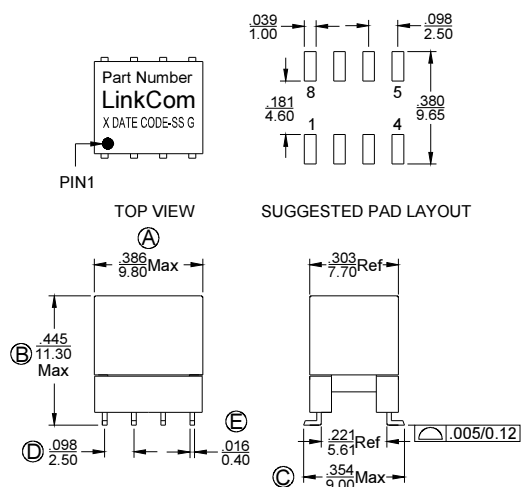


**#4(EP-7)**

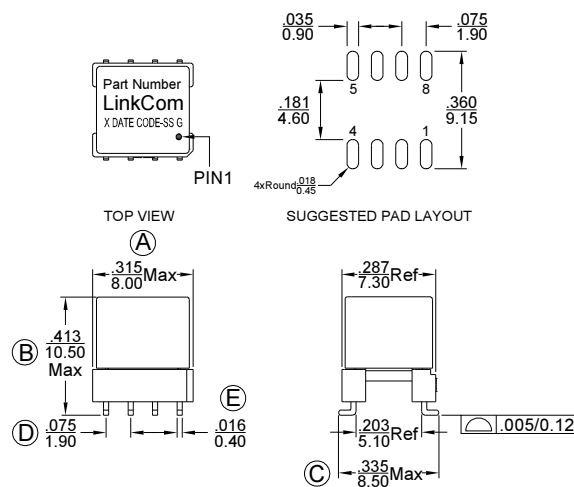


# DSL Applications - Broadcom

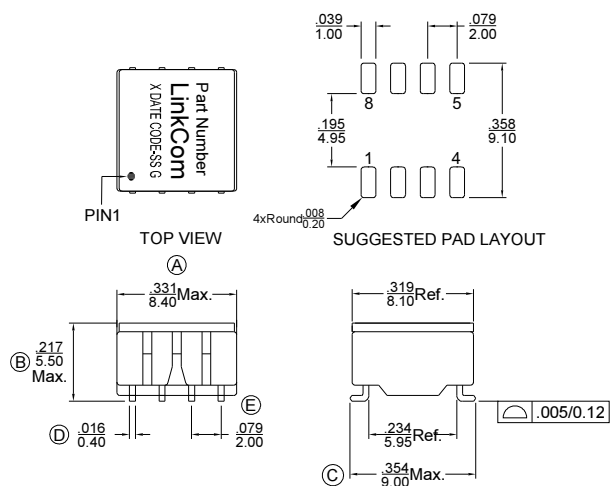
**#5(EP-7)**



**#6(EP-5.5)**



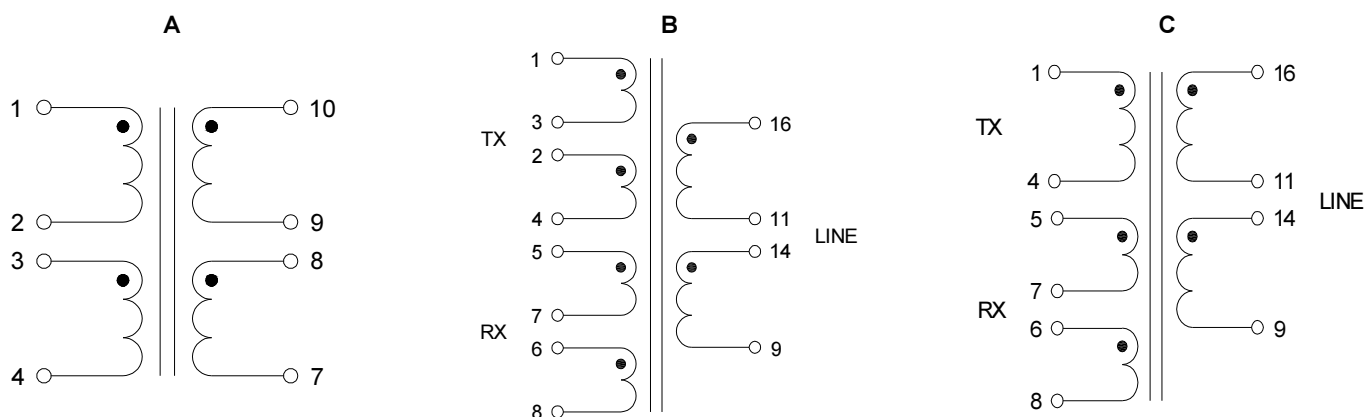
**#7(HD-8P-H55)**



# DSL Applications - Intel

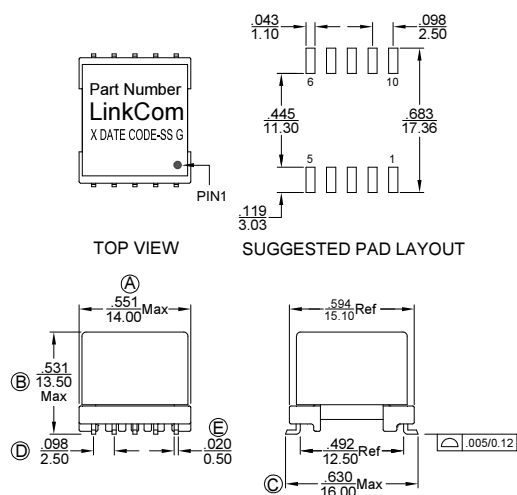
| IC Number          | LinkCom Part Number | Application | Location | Annex | 6KV Surge | Schematic | Dimension |
|--------------------|---------------------|-------------|----------|-------|-----------|-----------|-----------|
| VR9/VRX2xx/ VRX318 | LAL0520-50          | VDSL2       | CPE      | A     | No        | A         | #1        |
| VR9/VRX2xx/ VRX318 | LAL0530-50          | VDSL2       | CPE      | B     | No        | A         | #1        |
| AR10, ARX300       | LAL2688-50          | ADSL2+      | CPE      | A/B/J | No        | B         | #2        |
| VRX518             | LAL0580-63          | VDSL2       | CPE      | A     | Yes       | C         | #2        |

## Schematics:

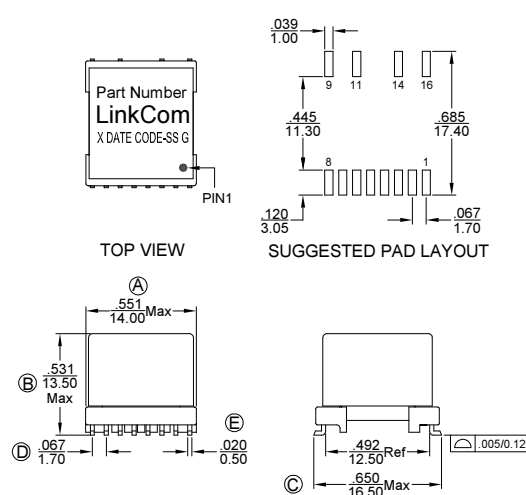


## Dimension: (Units: $\frac{\text{Inches}}{\text{mm}}$ )

### #1(EP-13)



### #2(EP-13)





## DSL Applications - ECONET

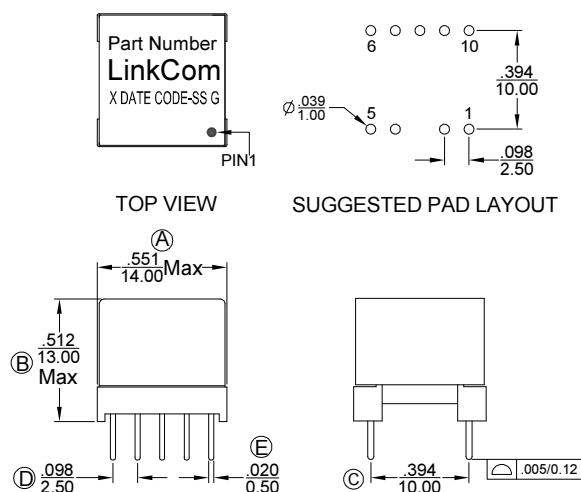
| IC Number        | LinkCom Part Number | Application | Location | Annex | 6KV Surge | Schematic/ Dimension | Package |
|------------------|---------------------|-------------|----------|-------|-----------|----------------------|---------|
| TC3085           | LAL2009-51          | ADSL2+      | CPE      | A     | No        | A                    | #1      |
| RT63087          | LAL2209-50          | ADSL2+      | CPE      | A     | No        | A                    | #1      |
| MT7555<br>EN7556 | LAL2522-52          | VDSL2       | CPE      | A     | No        | B                    | #2      |

### Schematics:

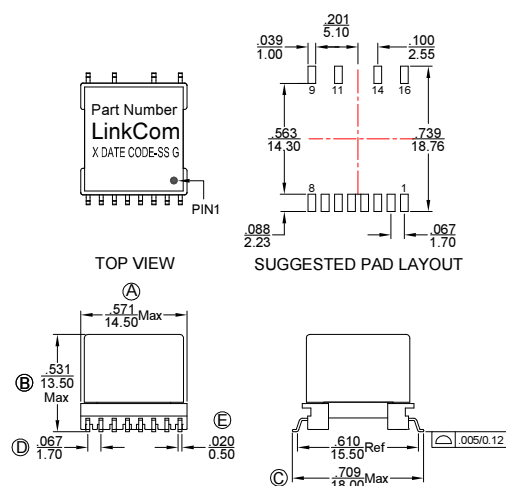


### Dimension: (Units: $\frac{\text{Inches}}{\text{mm}}$ )

#1(EP-13)



#2(EP-13)

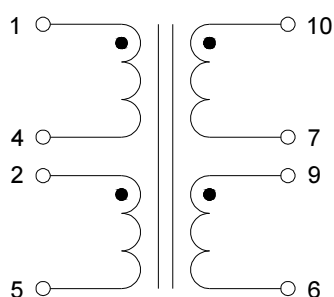


## DSL Applications - Realtek

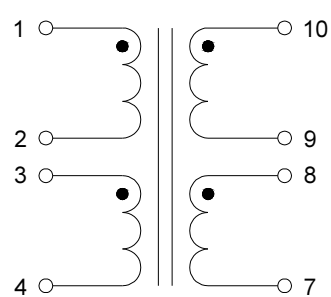
| IC Number           | LinkCom Part Number | Application | Location | Annex | 6KV Surge | Schematic | Dimension |
|---------------------|---------------------|-------------|----------|-------|-----------|-----------|-----------|
| RTL-8271B/8186/8676 | LAL2188-50          | ADSL2+      | CPE      | A     | No        | A         | #1        |
| RTL-8685            | LAL0525-51          | VDSL2       | CPE      | A     | No        | B         | #2        |
| RL8685SF/PB/P       | LAL0581-60          | VDSL2       | CPE      | A     | Yes       | C         | #3        |
| RL8685SF/PB/P       | LAL0582-60          | VDSL2       | CPE      | A     | Yes       | C         | #3        |
| New design          | LGT1702-61          | G.Fast      | CPE      | A     | No        | D         | #4        |

### Schematics:

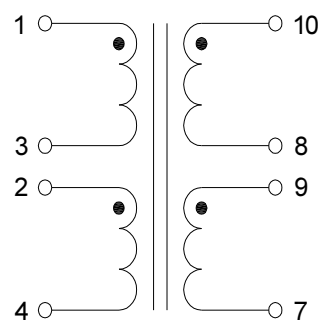
**A**



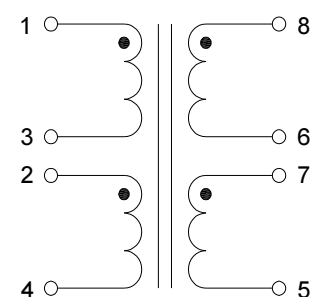
**B**



**C**



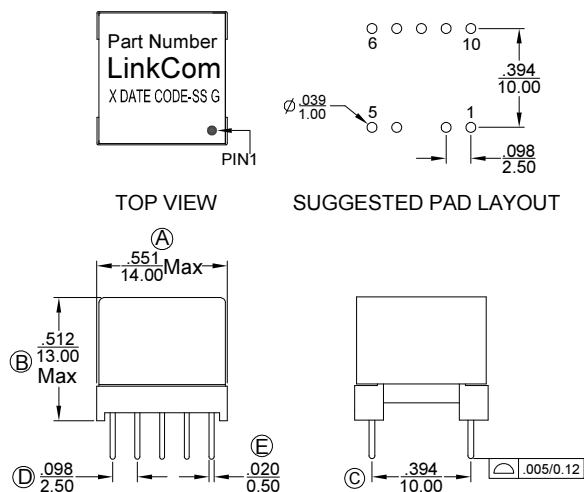
**D**



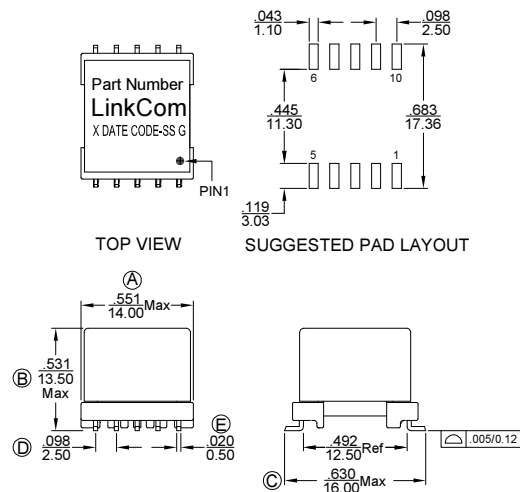
# DSL Applications - Realtek

**Dimension:** (Units:  $\frac{\text{Inches}}{\text{mm}}$ )

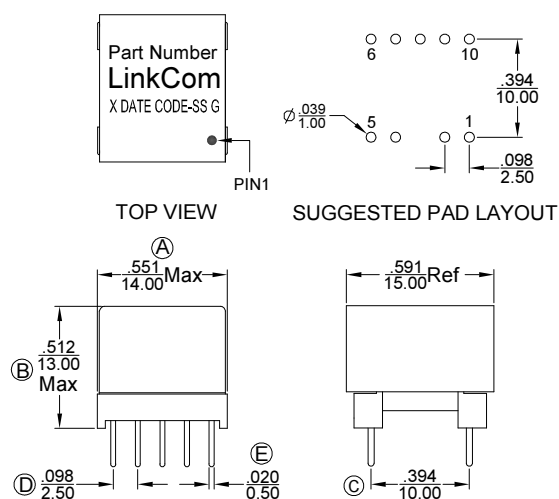
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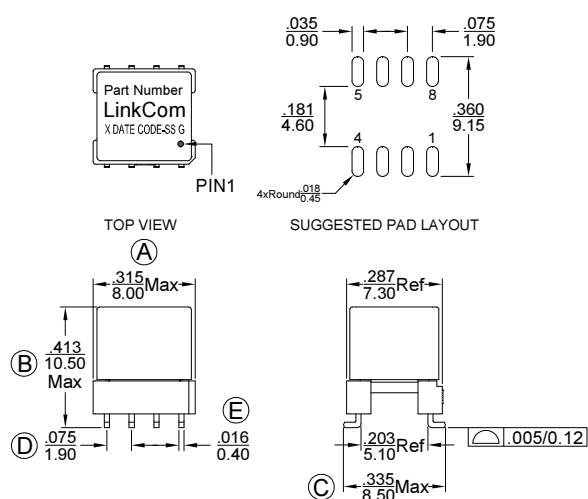
**#2(EP-13)**



**#3(EP-13)**



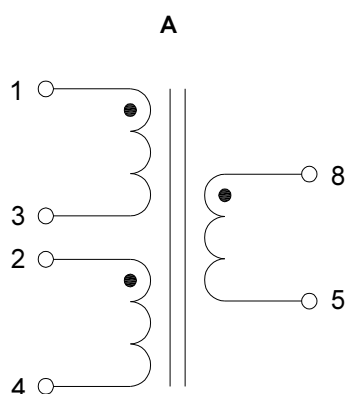
**#4(EP-5.5)**



## DSL Applications - Metanoia

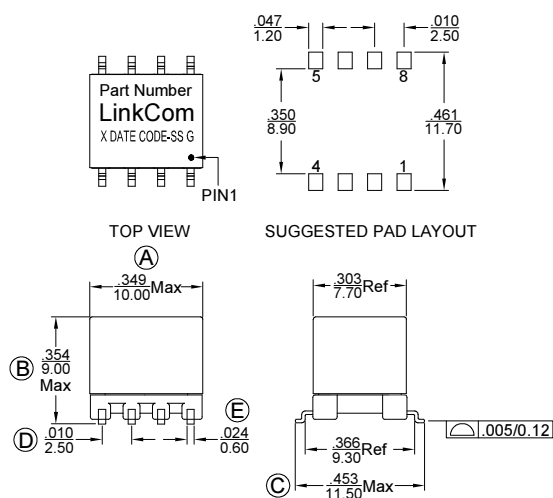
| IC Number | LinkCom Part Number | Application  | Location | Annex | 6KV Surge | Schematic | Dimension |
|-----------|---------------------|--------------|----------|-------|-----------|-----------|-----------|
| MT-V5311  | LAL1037-61          | ADSL2+/VDSL2 | CO/CPE   |       | Yes       | A         | #1        |

### Schematics:



**Dimension:** (Units:  $\frac{\text{Inches}}{\text{mm}}$ )

### #1(EP-7)





## Common Mode Filters – HD9055 Series

- RoHS Compliant
- Operating Temperature -40°C to +85°C

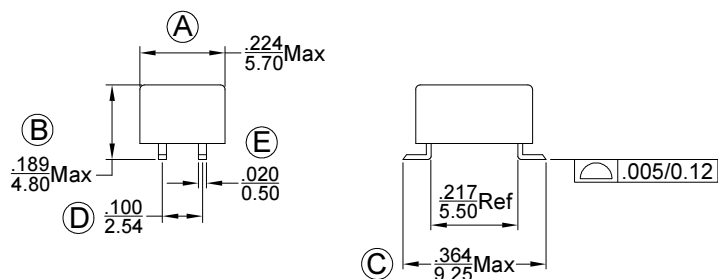
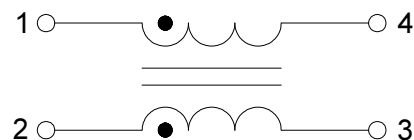
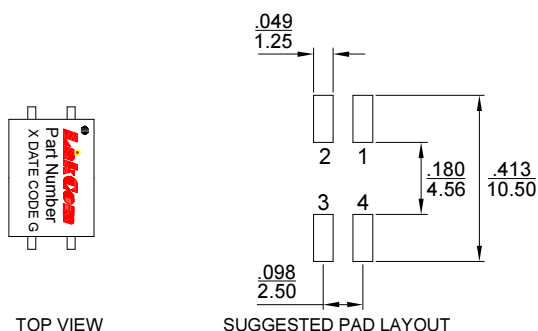
Electrical Specifications @25°C

| Inductance<br>(mH) | D.C.R.<br>(mΩ, ref.) | Hi-POT<br>(VAC/2s) | LinkCom<br>Part Number | Winding<br>Type |
|--------------------|----------------------|--------------------|------------------------|-----------------|
| 0.0050             | 23                   | 500                | LTC0290-50             | Bifilar         |
| 0.0110             | 110                  | 500                | LTC0287-50             | Bifilar         |
| 0.0138             | 28                   | 500                | LTC0567-50             | Sectional       |
| 0.0250             | 68                   | 500                | LTC0291-50             | Bifilar         |
| 0.0510             | 180                  | 500                | LTC0292-50             | Bifilar         |
| 0.0510             | 90                   | 500                | LTC0551-50             | Sectional       |
| 0.1000             | 190                  | 500                | LTC0293-50             | Bifilar         |
| 0.4700             | 300                  | 500                | LTC0283-50             | Bifilar         |
| 0.5000             | 150                  | 500                | LTC0370-50             | Bifilar         |
| 0.6800             | 95                   | 500                | LTC0581-50             | Bifilar         |
| 1.0000             | 120                  | 500                | LTC0285-50             | Bifilar         |
| 2.2000             | 350                  | 500                | LTC0271-50             | Bifilar         |
| 4.7000             | 650                  | 500                | LLF0097-50             | Bifilar         |

### Dimensions

(Units:  $\frac{\text{Inches}}{\text{mm}}$  , Unless otherwise specified, all tolerances are  $\pm \frac{.010}{0.25}$  )

### Schematic

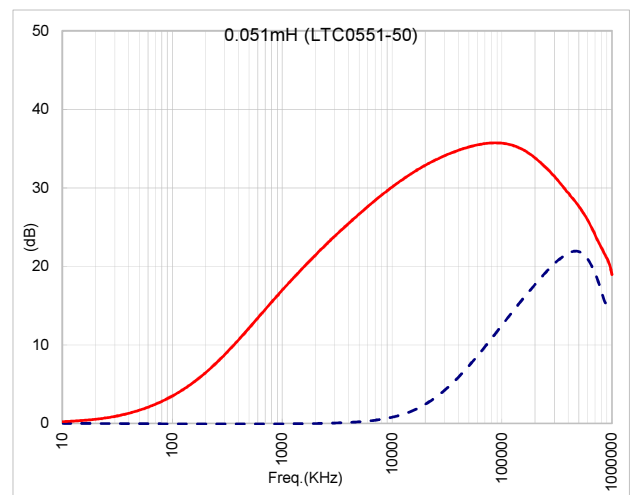
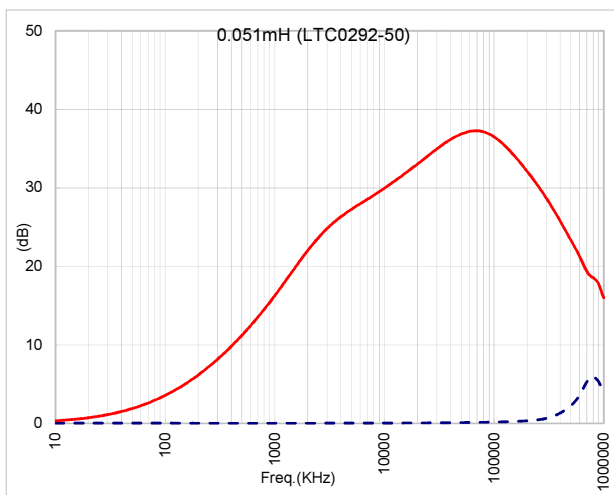
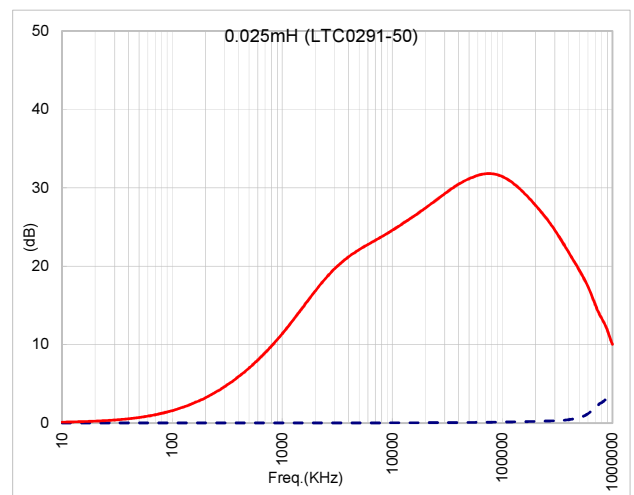
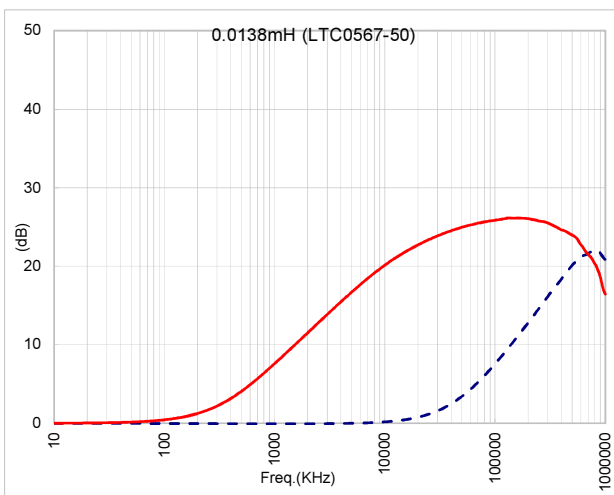
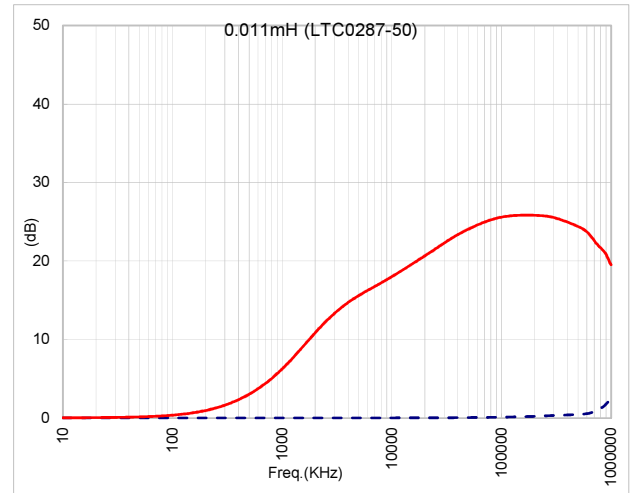
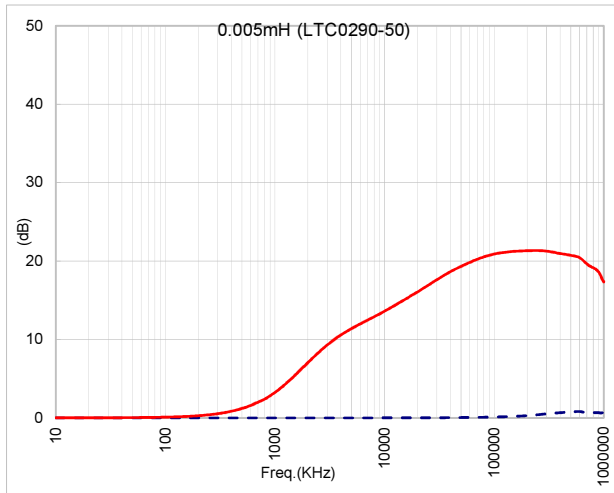




## Common Mode Filters – HD9055 Series

### Insertion loss

— Common mode  
- - - Differential mode

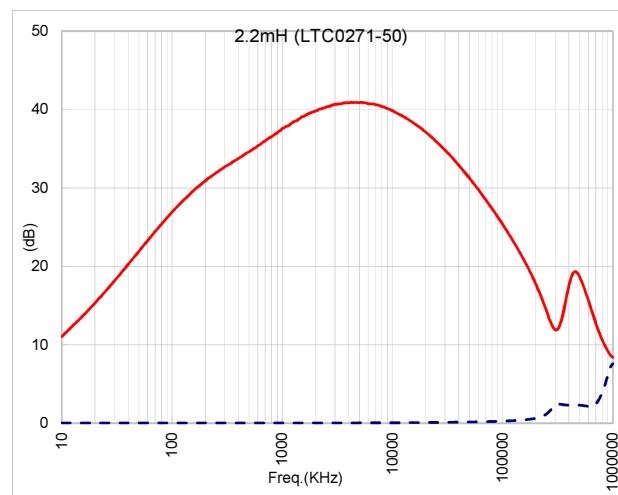
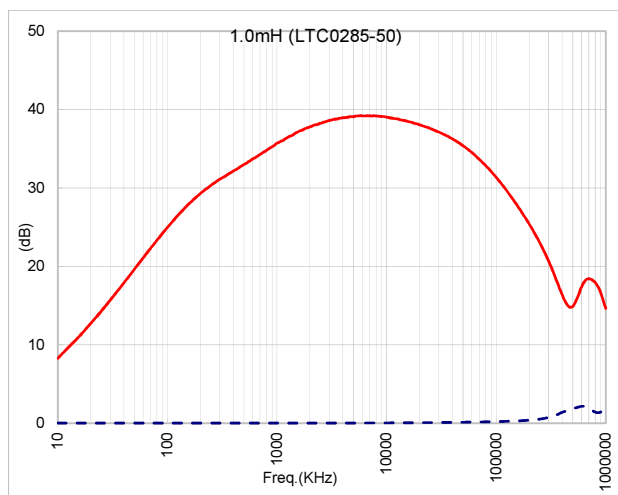
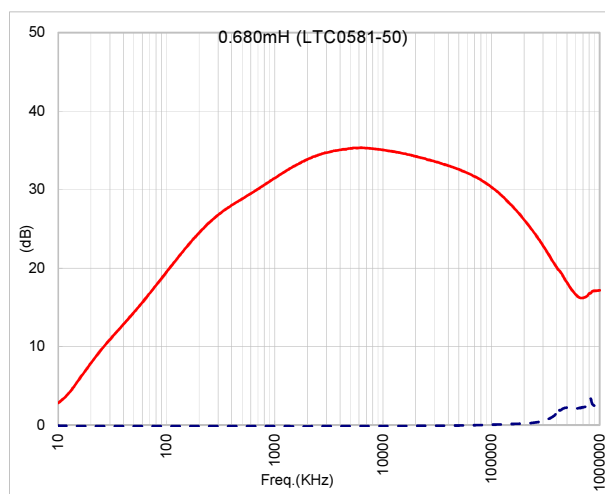
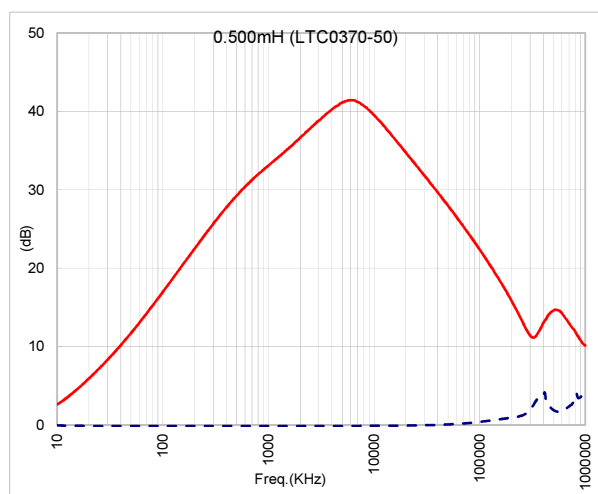
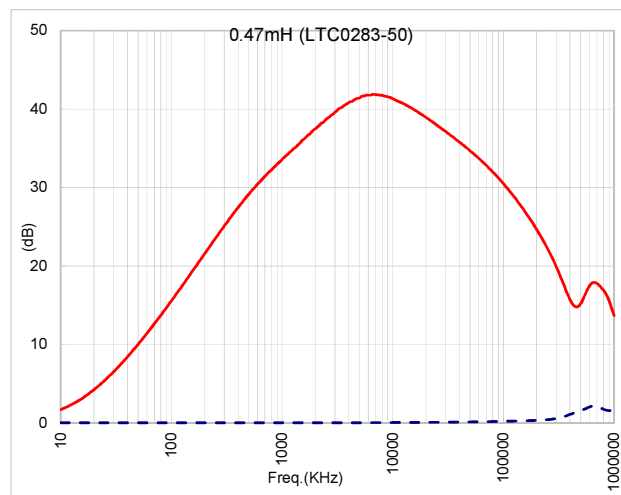
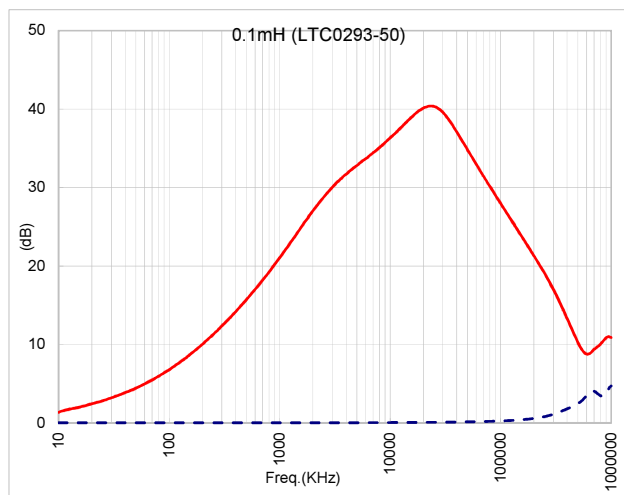




## Common Mode Filters – HD9055 Series

### Insertion loss

— Common mode  
- - - Differential mode

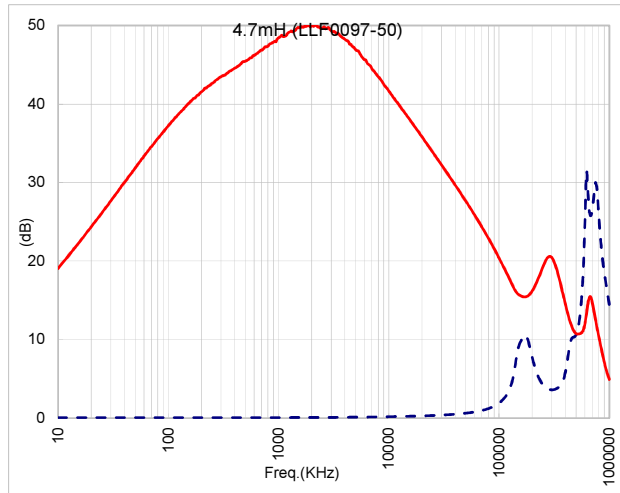




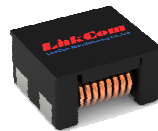
## Common Mode Filters – HD9055 Series

### Insertion loss

— Common mode  
- - - Differential mode







## Common Mode Filters – LCMF7060 Series

### Features

- Designed for noise suppression at DC power lines.
- Low profile (H = 3.8mm).
- Small size.
- High rated current.
- Operating temperature: -40°C ~ 85°C.

### Applications

- Power line equipment like DC-DC converters, battery chargers.
- Portable equipment like PDAs, laptops, printers.

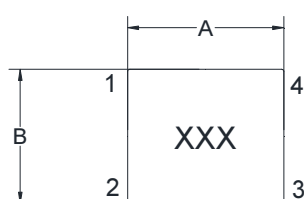
### Product Identification

LCMF 7 0 6 0 P1 - 8 0 0 - 2P  
1 2 3 4 5

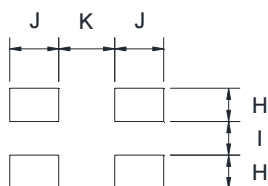
1. Series : LCMF= LinkCom Common Mode Filter
2. Dimension Code: 7.0mm x 6.0mm x 3.8mm
3. Shielding Type/Application P1=Power
4. Impedance Value 80Ω
5. Number of lines 2P=2-line

### Dimension(mm)

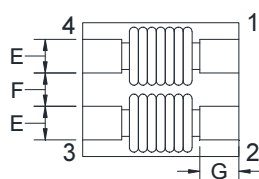
(Units:  $\frac{\text{mm}}{\text{Inches}}$  , Unless otherwise specified, all tolerances are  $\pm \frac{0.25}{[.010]}$  )



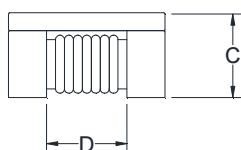
TOP VIEW



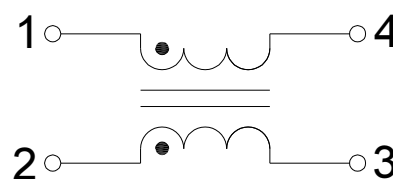
SUGGESTED PAD LAYOUT



BOTTOM VIEW



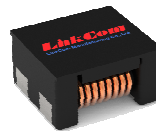
### Schematic



### Mark

XXX---- Impedance

|   |                                               |   |                                         |
|---|-----------------------------------------------|---|-----------------------------------------|
| A | $\frac{7.00 \pm 0.50}{[.276 \pm .019]}$       | G | $\frac{1.70 \pm 0.20}{[.067 \pm .008]}$ |
| B | $\frac{6.00 \pm 0.50}{[.236 \pm .019]}$       | H | $\frac{1.50}{[.059]}$                   |
| C | $\frac{3.80 \text{ MAX}}{[.149 \text{ MAX}]}$ | I | $\frac{1.50}{[.059]}$                   |
| D | $\frac{3.50 \text{ Typ}}{[.138 \text{ Typ}]}$ | J | $\frac{2.20}{[.087]}$                   |
| E | $\frac{1.50 \pm 0.20}{[.059 \pm .008]}$       | K | $\frac{2.50}{[.098]}$                   |
| F | $\frac{1.50 \pm 0.20}{[.059 \pm .008]}$       |   |                                         |

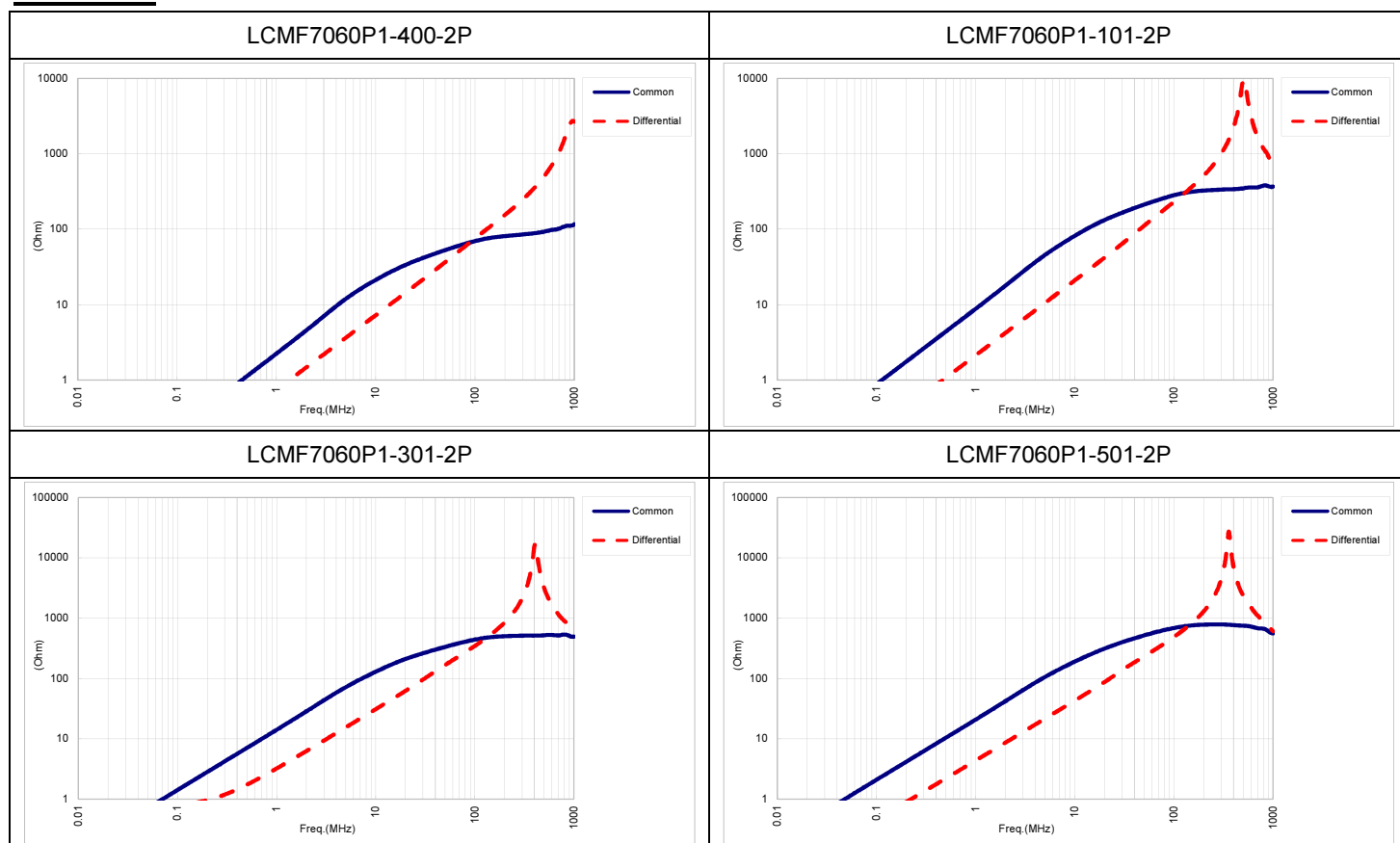


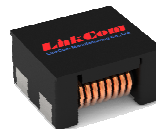
## Common Mode Filters – LCMF7060 Series

### Electrical Characteristics

| Part Number       | Z(Ω) at 100MHz |      | D.C. Resistance<br>(mΩ) Max. | Rated Current<br>(A) Max. | Rated Voltage<br>Vdc (V) | Insulation<br>Resistance<br>(MΩ) Min. | Mark |
|-------------------|----------------|------|------------------------------|---------------------------|--------------------------|---------------------------------------|------|
|                   | Min.           | Typ. |                              |                           |                          |                                       |      |
| LCMF7060P1-400-2P | 40             | 70   | 5                            | 15                        | 80                       | 10                                    | 400  |
| LCMF7060P1-101-2P | 100            | 140  | 10                           | 9                         | 80                       | 10                                    | 101  |
| LCMF7060P1-301-2P | 225            | 300  | 10                           | 5                         | 80                       | 10                                    | 301  |
| LCMF7060P1-501-2P | 275            | 350  | 10                           | 5                         | 80                       | 10                                    | 501  |
| LCMF7060P1-601-2P | 500            | 700  | 15                           | 4                         | 80                       | 10                                    | 601  |
| LCMF7060P1-701-2P | 500            | 700  | 15                           | 4                         | 80                       | 10                                    | 701  |
| LCMF7060P1-102-2P | 800            | 1020 | 17                           | 3                         | 80                       | 10                                    | 102  |
| LCMF7060P1-132-2P | 910            | 1300 | 21                           | 2.5                       | 80                       | 10                                    | 132  |
| LCMF7060P1-272-2P | 2000           | 2700 | 63                           | 1                         | 80                       | 10                                    | 272  |
| LCMF7060P1-302-2P | 2500           | 3000 | 75                           | 0.9                       | 80                       | 10                                    | 302  |

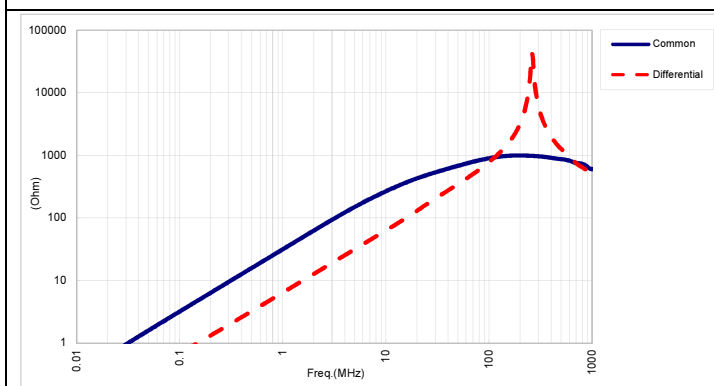
### Imedance



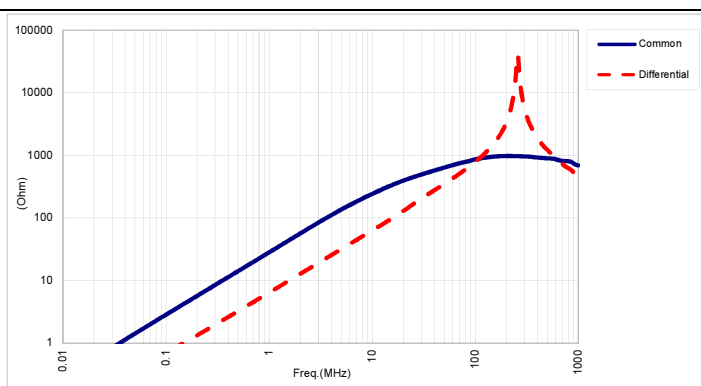


## Common Mode Filters – LCMF7060 Series

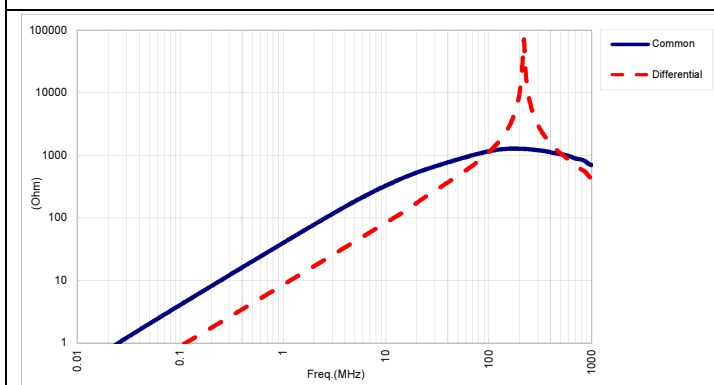
LCMF7060P1-601-2P



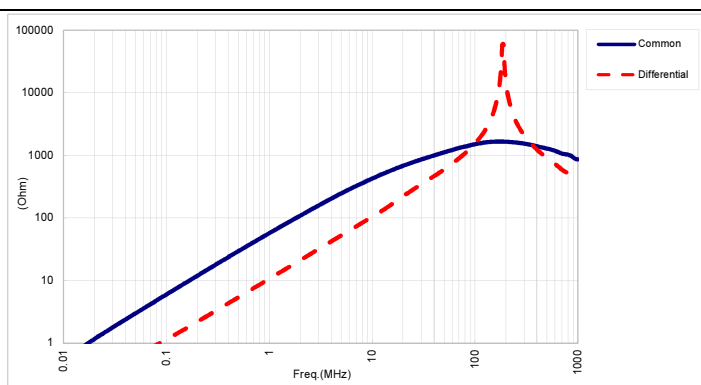
LCMF7060P1-701-2P



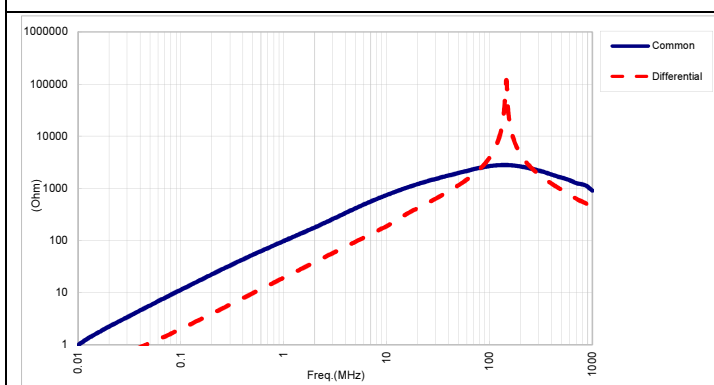
LCMF7060P1-102-2P



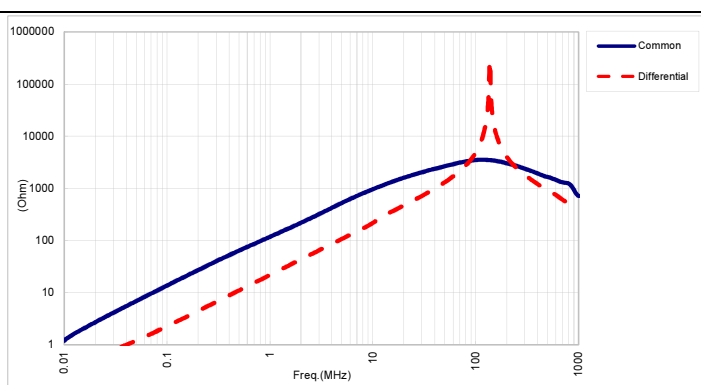
LCMF7060P1-132-2P



LCMF7060P1-272-2P



LCMF7060P1-302-2P

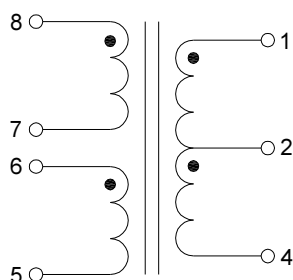


## G.hn Applications - Maxlinear

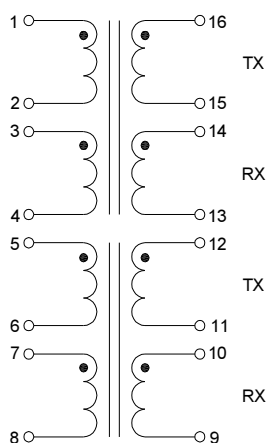
| IC Number                      | LinkCom Part Number | Application                                                     | Specification                      | Schematic | Dimension |
|--------------------------------|---------------------|-----------------------------------------------------------------|------------------------------------|-----------|-----------|
| 88LX5153(DSP)<br>88LX2730(AFE) | LTC0331-51          | Wave-2 chipset / 200 MHz<br>Coaxial/ phone line                 | 15μH Min.<br>2CT(line):2(Rx):1(Tx) | A         | #1        |
| 88LX5152(DSP)<br>88LX2720(AFE) | LTC0353-51          | DW920 design / MIMO<br>Wave-2 chipset                           | 54μH Min.<br>3(line):3(Rx):1(Tx)   | B         | #2        |
| 88LX5152(DSP)<br>88LX2720(AFE) | LTC0502-50          | DW920 design / SISO<br>Wave-2 chipset                           | 54μH Min.<br>3(line):3(Rx):1(Tx)   | C         | #1        |
| 88LX5152(DSP)<br>88LX2720(AFE) | LLF0131-51          | CM choke for G.hn<br>AC /DC power supply<br>Coaxial/ phone line | 47mH Min.<br>1:1                   | D         | #3        |
| 88LX5152(DSP)<br>88LX2720(AFE) | LLF0132-50          | CM choke for G.hn<br>AC /DC power supply<br>Coaxial/ phone line | 47mH Min.<br>1:1                   | D         | #4        |

### Schematics:

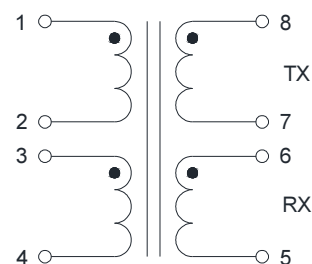
A



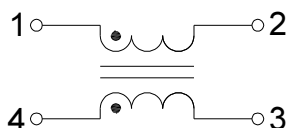
B



C



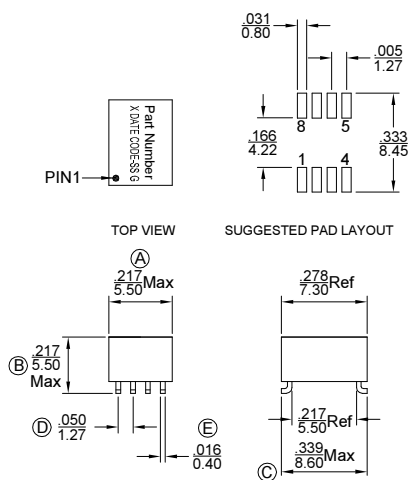
D



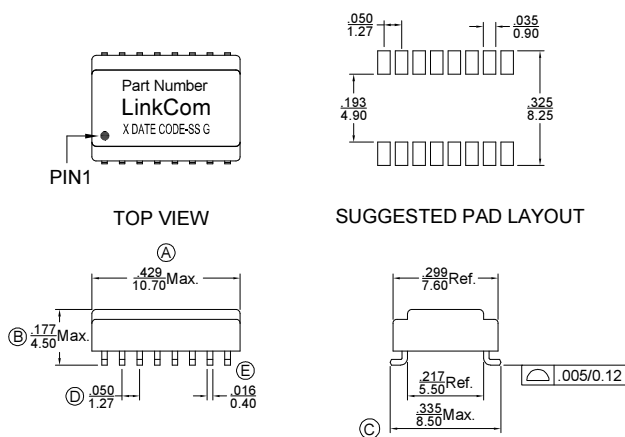
# G.hn Applications - Maxlinear

**Dimension:** (Units:  $\frac{\text{Inches}}{\text{mm}}$ )

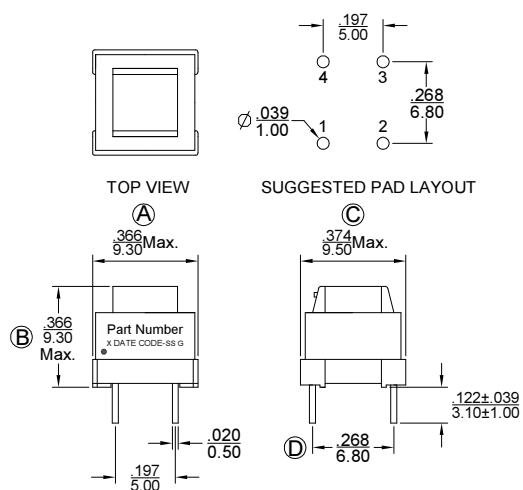
**#1**



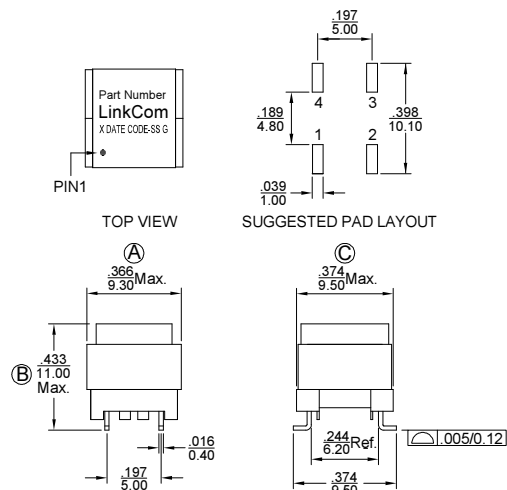
**#2**



**#3**



**#4**

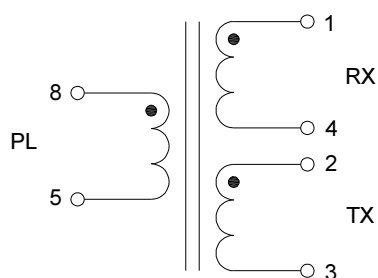


# HomePlug<sup>®</sup> - Applications Qualcomm

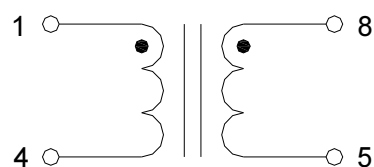
| IC Number | LinkCom Part Number | Application                                                     | Specification      | Schematic | Dimension |
|-----------|---------------------|-----------------------------------------------------------------|--------------------|-----------|-----------|
| QCA7005   | LTC0388-50          | Coupling XFMR<br>Home Plug Green PHY™ Electric Vehicle Charging | 10uH Min.<br>1:1   | A         | #1        |
| QCA7005   | LTC0389-50          | Coupling XFMR<br>Home Plug Green PHY™ Electric Vehicle Charging | 10uH Min.<br>1:1   | B         | #1        |
| QCA7005   | LTC0508-50          | Coupling XFMR<br>Home Plug Green PHY™ Reinforced insulation     | 10uH min.<br>1:1   | B         | #2        |
| QCA75X0   | LLF0129-50          | Coupling XFMR Home Plug AV2                                     | 20mH Min.<br>1:1   | C         | #3        |
| QCA75X0   | LLF0130-50          | Coupling XFMR Home Plug AV2                                     | 20mH, Min.<br>1:1  | D         | #5        |
| QCA75X0   | LLF0133-50          | Coupling XFMR Home Plug AV2                                     | 20mH, Min.;<br>1:1 | C         | #4        |

## Schematics:

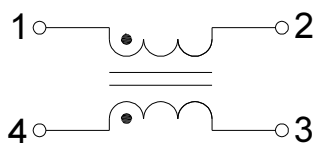
A



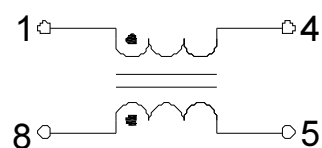
B



C



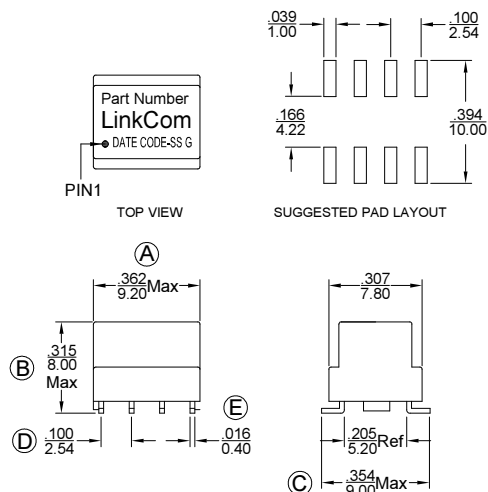
D



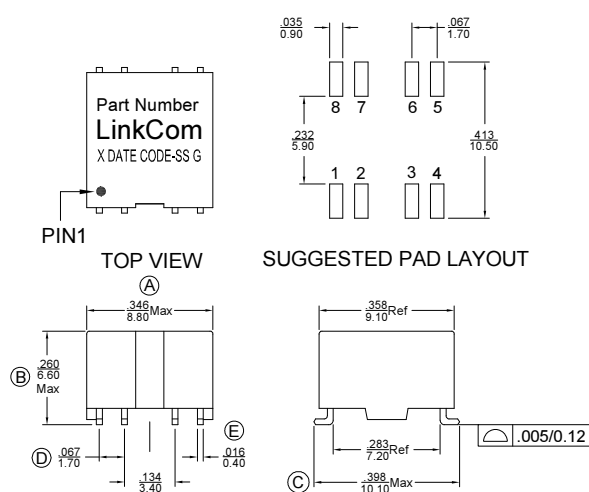
# HomePlug<sup>®</sup> - Applications Qualcomm

**Dimension:** (Units:  $\frac{\text{Inches}}{\text{mm}}$ )

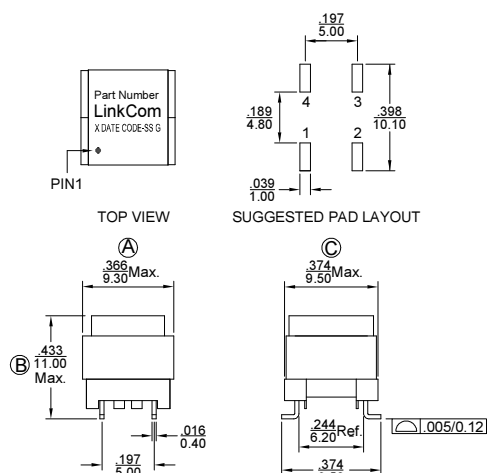
**#1**



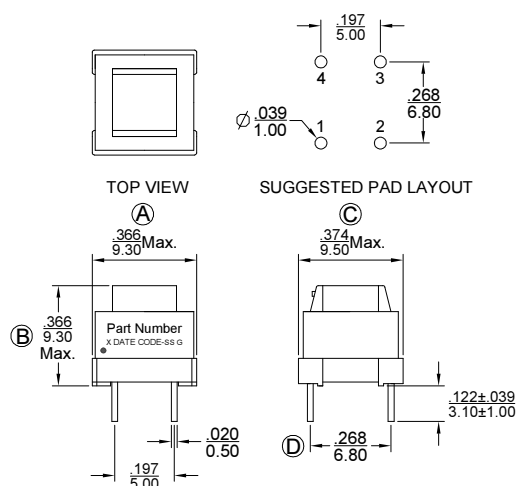
**#2**



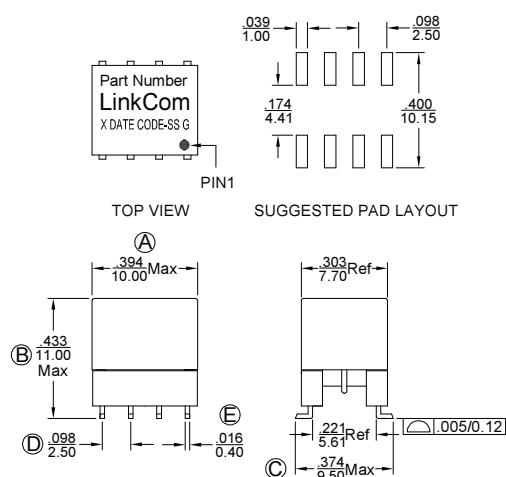
**#3**



**#4**



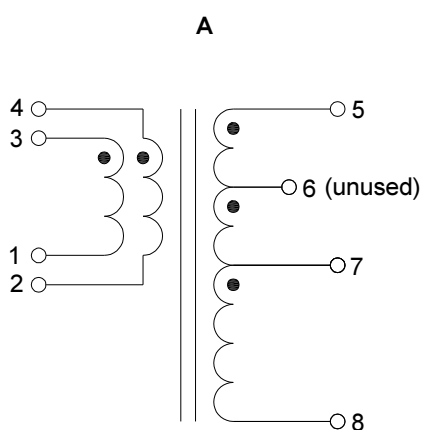
**#5**



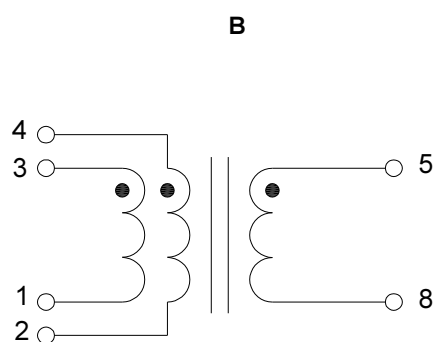
## Voice band Applications - Microsemi

| IC Number                                                                         | LinkCom Part Number | Inductance (uH) | Turn Ratio                    | Schematic | Dimension |
|-----------------------------------------------------------------------------------|---------------------|-----------------|-------------------------------|-----------|-----------|
| Le9632, Le9641, Le9643,<br>Le9651, Le9652, Le9653,<br>Le9672, ZL88701,<br>ZL88702 | LDT0898-50          | 2.0             | 5-8:3-2=10:1<br>7-8:3-2=3.5:1 | A         | #1        |
|                                                                                   | LDT0993-52          | 2.0             | 5-8:3-2=10:1                  | B         | #1        |

### Schematics:

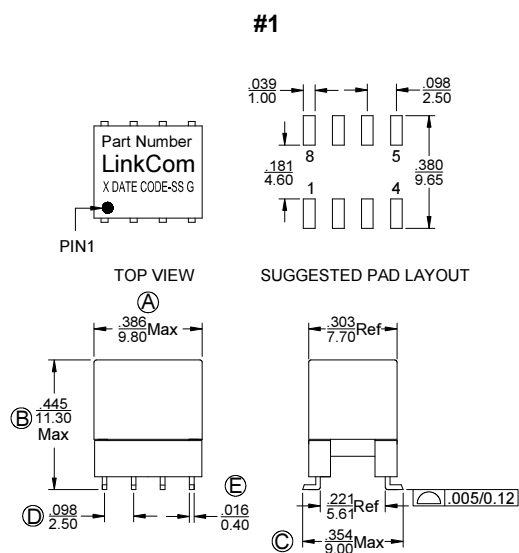


PIN1,2 and 3,4 must be connected on PCB



PIN1,2 and 3,4 must be connected on PCB

### Dimension: (Units: $\frac{\text{Inches}}{\text{mm}}$ )



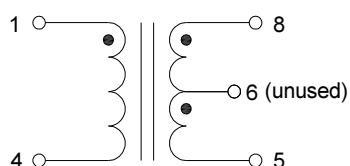


## Voice band Applications - Silicon Labs

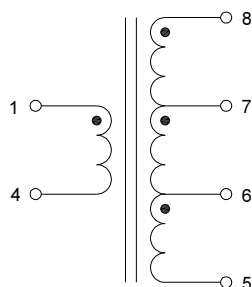
| IC Number                      | LinkCom Part Number | Inductance (uH) | Schematic | Dimension |
|--------------------------------|---------------------|-----------------|-----------|-----------|
| Si3217x, Si3226x               | LDT0876-50          | 8.0             | A         | #1        |
| Si3217x, Si3226x               | LDT0887-50          | 8.0             | B         | #1        |
| Si3217x, Si3226x (140V design) | LDT0905-50          | 2.0             | C         | #2        |

### Schematics:

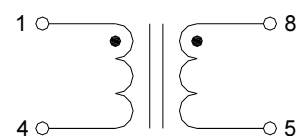
**A**



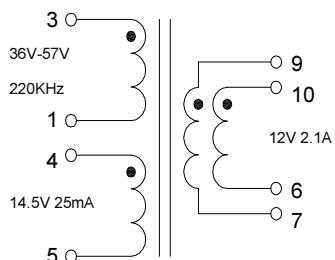
**B**



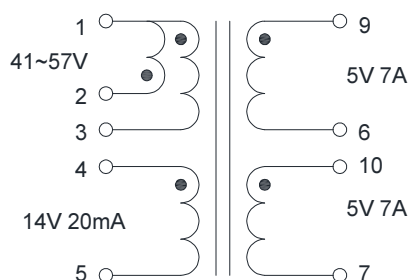
**C**



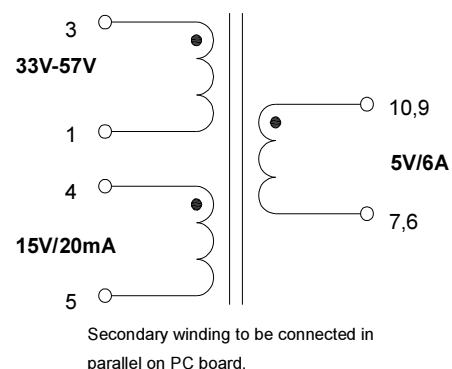
**D**



**E**



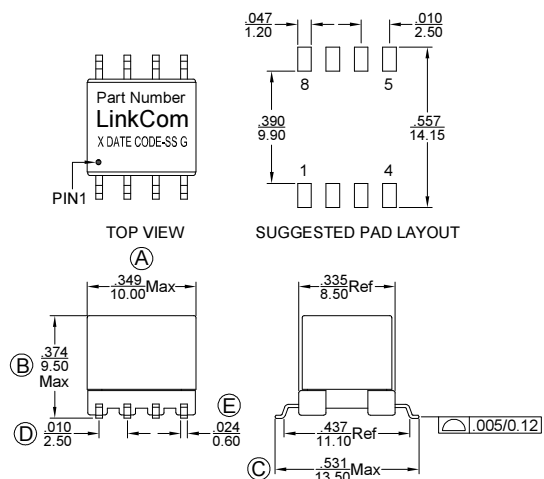
**F**



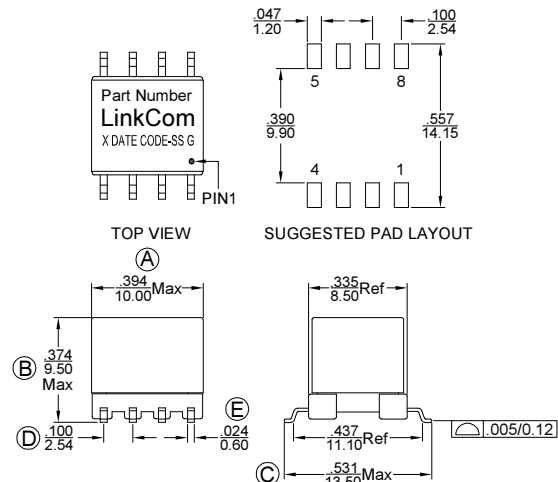
# Voice band Applications - Silicon Labs

**Dimension:** (Units:  $\frac{\text{Inches}}{\text{mm}}$ )

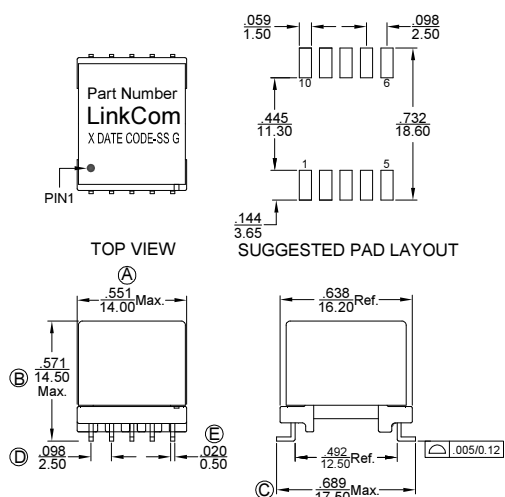
**#1 (EP-7)**



**#2 (EP-7)**



**#3 (EP-13)**

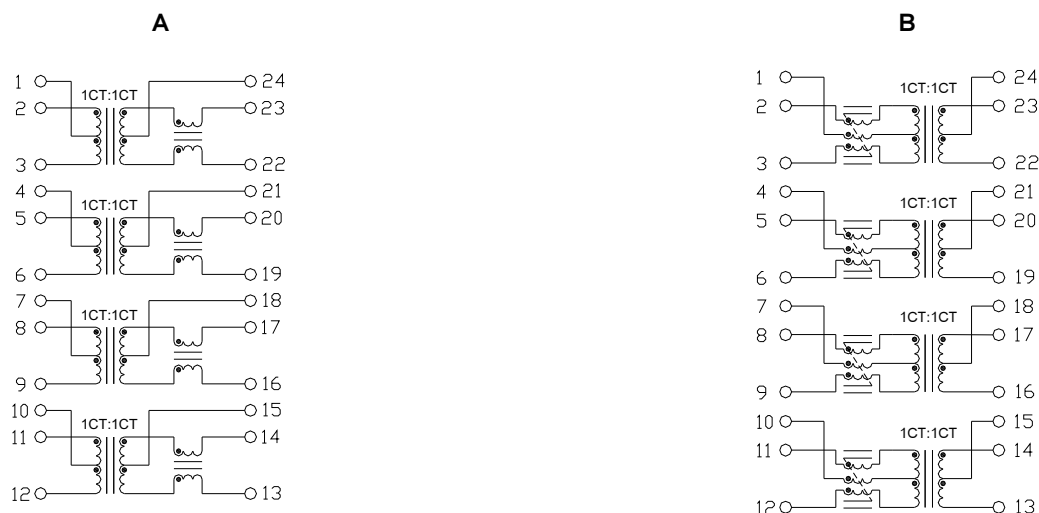


## LAN Applications - 2.5/5G BASE-T Magnetic Module

- Meets IEEE 802.3bz standard for 2.5G BASE-T
- RoHS Compliant

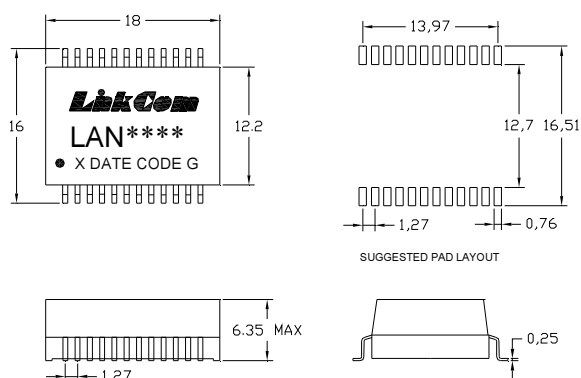
| LinkCom Part no. | Pin Style | Pin | Temperature | Application | Port | Schematic | Dimension |
|------------------|-----------|-----|-------------|-------------|------|-----------|-----------|
| LAN7241-50       | SMD       | 24  | 0°C ~70°C   | 2.5G Base-T | 1    | A         | #1        |
| LAN7241-53       | SMD       | 24  | 0°C ~70°C   | 2.5G Base-T | 1    | B         | #1        |
| LAN7246-50       | SMD       | 24  | 0°C ~70°C   | 5G Base-T   | 1    | A         | #1        |
| LAN7246-53       | SMD       | 24  | 0°C ~70°C   | 5G Base-T   | 1    | B         | #1        |

### Schematics:



### Dimension: (Units: mm)

#1

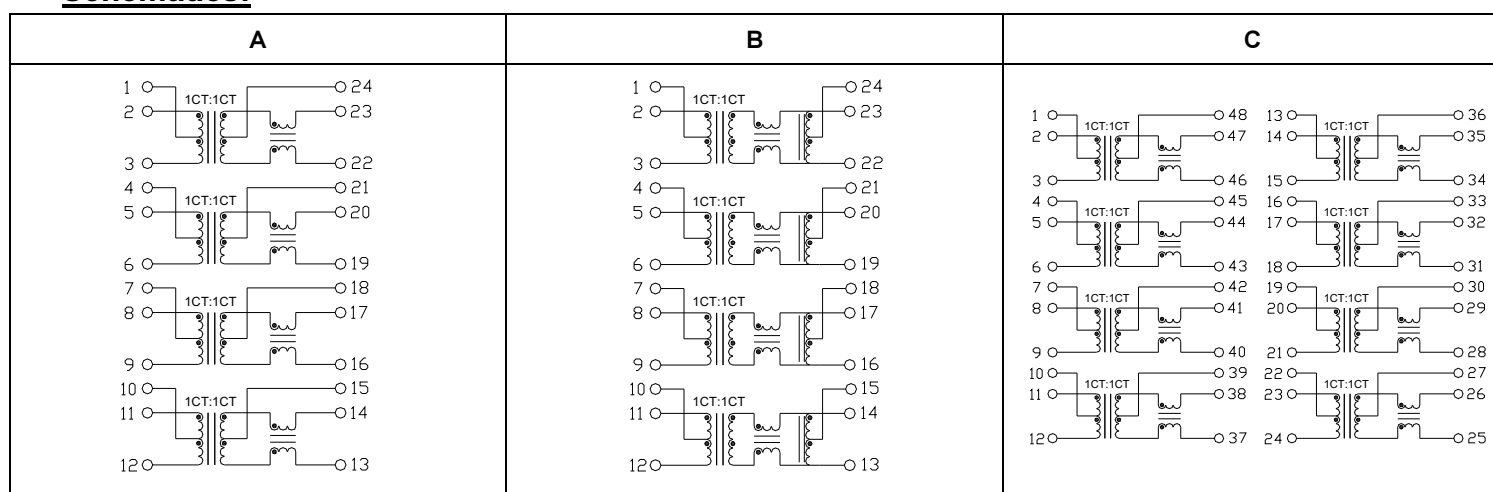


# LAN Applications - 10/100/1000 BASE-T Magnetic Module

- Meets IEEE 802.3 standard for 10/100/1000 BASE-T
- RoHS Compliant

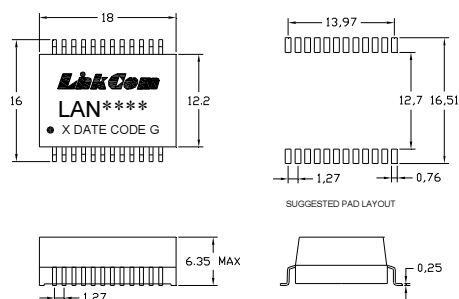
| LinkCom Part no. | Pin Style | Pin | Temperature | Application        | Port | Schematic | Dimension |
|------------------|-----------|-----|-------------|--------------------|------|-----------|-----------|
| LAN3003-80       | SMD       | 24  | 0°C ~70°C   | 10/100/1000 Base-T | 1    | A         | #1        |
| LAN3004-83       | SMD       | 24  | 0°C ~70°C   | 10/100/1000 Base-T | 1    | B         | #1        |
| LAN3007-80       | SMD       | 48  | 0°C ~70°C   | 10/100/1000 Base-T | 2    | C         | #2        |
| LAN3241-52       | DIP       | 24  | 0°C ~70°C   | 10/100/1000 Base-T | 1    | A         | #3        |
| LAN3482-50       | DIP       | 48  | 0°C ~70°C   | 10/100/1000 Base-T | 2    | C         | #4        |

## Schematics:

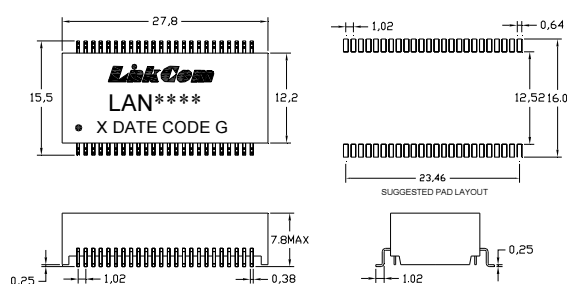


## Dimension: (Units: mm)

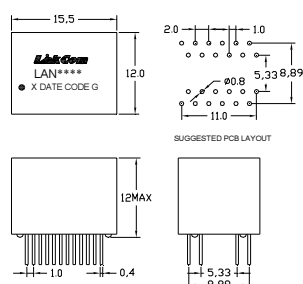
#1



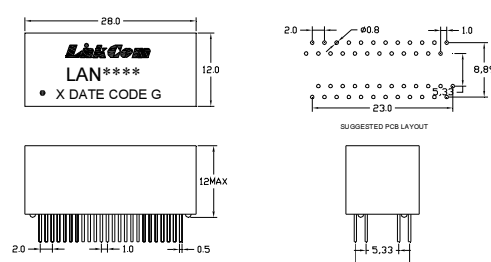
#2



#3



#4



- Meets IEEE 802.3af standard for 10/100/1000 BASE-T

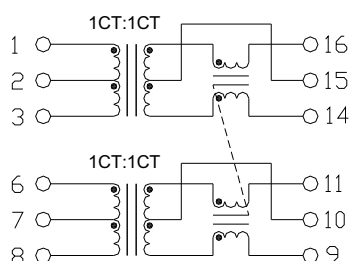
# LAN Applications - 10/100/1000 BASE-T Magnetic Module

- RoHS Compliant

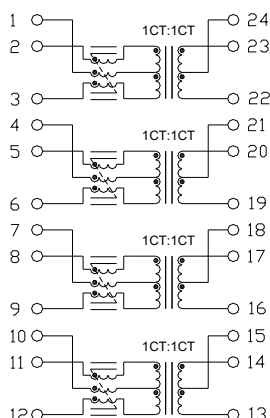
| LinkCom Part no. | Pin Style | Pin | Temperature | Application        | Port | Schematic | Dimension |
|------------------|-----------|-----|-------------|--------------------|------|-----------|-----------|
| LAN2019-51       | SMD       | 16  | 0°C ~70°C   | 10/100 Base-T      | 1    | A         | #1        |
| LAN2241-53       | SMD       | 24  | 0°C ~70°C   | 10/100/1000 Base-T | 1    | B         | #2        |
| LAN2482-52       | SMD       | 48  | 0°C ~70°C   | 10/100/1000 Base-T | 2    | C         | #3        |

## Schematics:

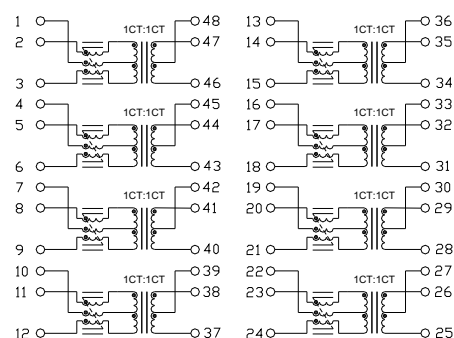
A



B

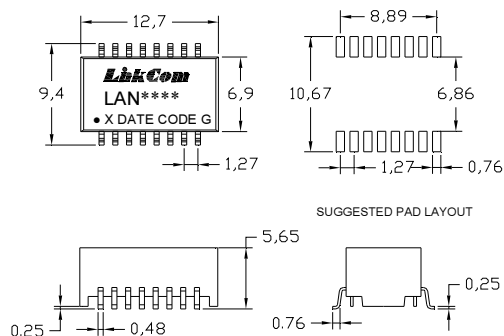


C

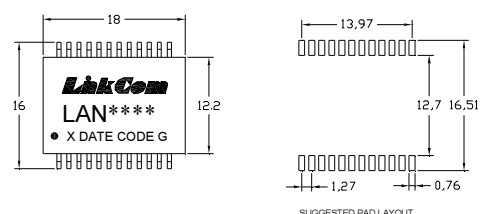


## Dimension: (Units: mm)

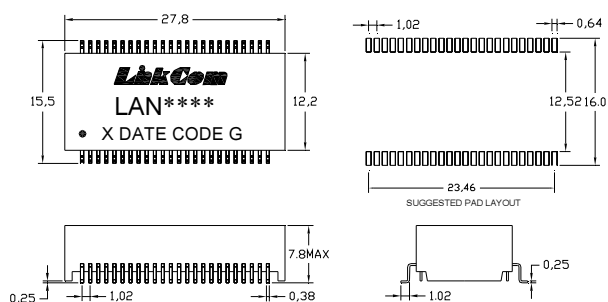
#1



#2



#3

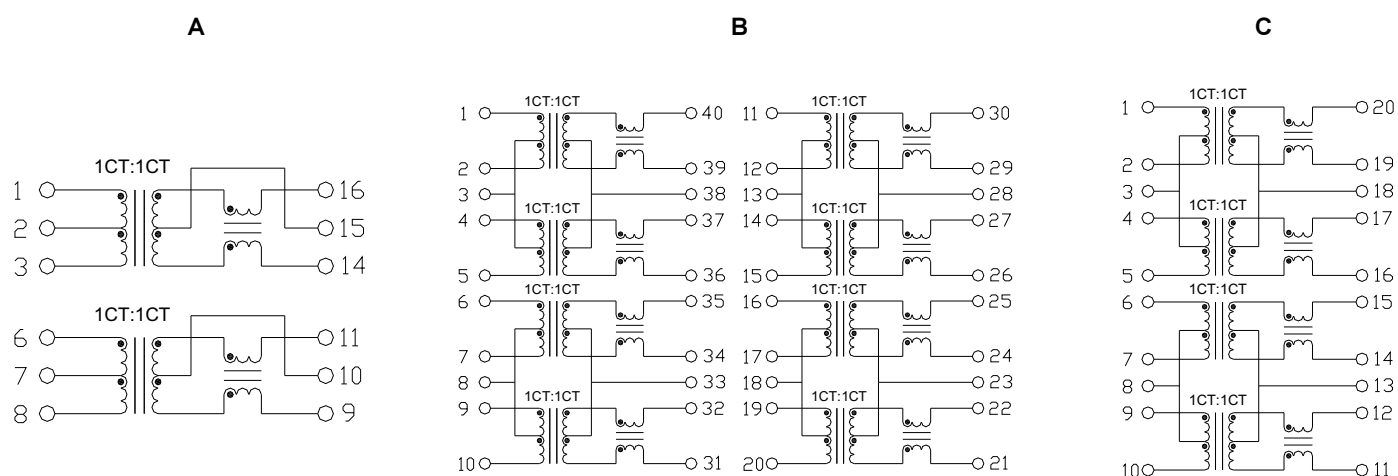


# LAN Applications - 10/100 BASE-T Magnetic Module

- Meets IEEE 802.3 standard for 10/100 BASE-T
- RoHS Compliant

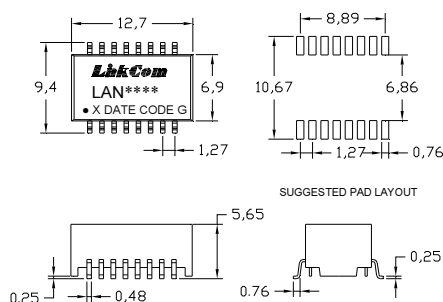
| LinkCom Part no. | Pin Style | Pin | Temperature | Application   | Port | Schematic | Dimension |
|------------------|-----------|-----|-------------|---------------|------|-----------|-----------|
| LAN1102-80       | SMD       | 16  | 0°C ~70°C   | 10/100 Base-T | 1    | A         | #1        |
| LAN1164-70       | SMD       | 40  | 0°C ~70°C   | 10/100 Base-T | 4    | B         | #3        |
| LAN0068-50       | DIP       | 20  | 0°C ~70°C   | 10/100 Base-T | 2    | C         | #2        |

## Schematics:

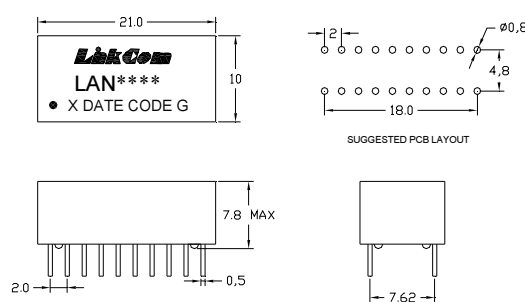


## Dimension: (Units: mm)

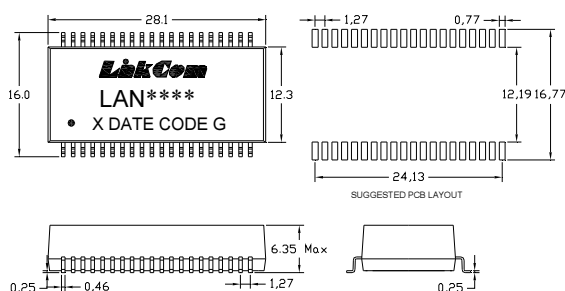
#1



#2



#3

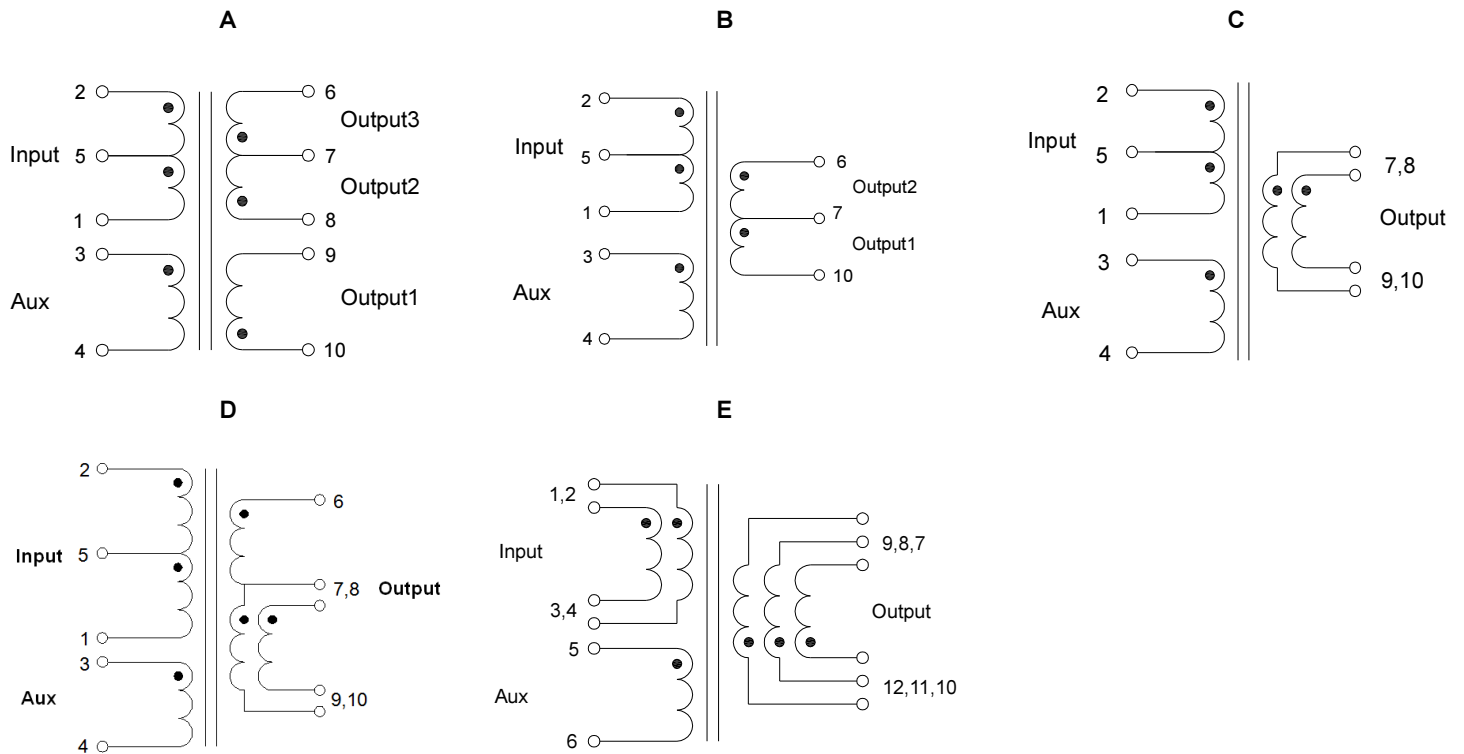


## PoE Applications - Texas Instruments

| IC Number | LinkCom Part Number | Watts | Input             | Aux           | Output                                     | Inductance (uH) | Schematic | Package    | Topology |
|-----------|---------------------|-------|-------------------|---------------|--------------------------------------------|-----------------|-----------|------------|----------|
| TPS23785  | LDT0567-50          | 13    | 36V-57V<br>250KHz | 10.3V<br>20mA | O1: 3.3V/2A<br>O2: 5V/1A<br>O3: 10V/10mA   | 133±7%          | A         | #1(EP-13)  | Flyback  |
| TPS23785  | LDT0568-50          | 13    | 36V-57V<br>250KHz | 10.3V<br>20mA | O1: 3.3V/2A<br>O2: 5V/1A<br>O3: 10V/10mA   | 240±7%          | A         | #1(EP-13)  | Flyback  |
| TPS23785  | LDT0571-50          | 13    | 36V-57V<br>250KHz | 10.3V<br>20mA | O1: 3.3V/1.5A<br>O2: 5V/1A<br>O3: 10V/0.2A | 220±7%          | A         | #1(EP-13)  | Flyback  |
| TPS23753  | LDT0959-50          | 13    | 36V-57V<br>250KHz | 10.3V<br>20mA | O1: 3.3V/3.3A<br>O2: 10V/0.2A              | 133±7%          | B         | #2(EP-13)  | Flyback  |
| TPS23755  | LDT0950-50          | 13    | 36V-57V<br>250KHz | 13.5V<br>20mA | 12V/1A                                     | 150±7%          | C         | #2(EP-13)  | Flyback  |
| TPS23755  | LDT0939-50          | 13    | 36V-57V<br>250KHz | 10.3V<br>20mA | O1: 3.3V/2A<br>O2: 5V/1A<br>O3: 10V/10mA   | 133±7%          | A         | #2(EP-13)  | Flyback  |
| TPS23758  | LDT1018-50          | 13    | 36V-57V<br>250KHz | 10.5V<br>20mA | 5V/2.38A                                   | 150±7%          | D         | #3(EPD-13) | Flyback  |
| TPS23758  | LDT1023-50          | 13    | 36V-57V<br>250KHz | 10V<br>20mA   | 3.3V/3.6A                                  | 140±7%          | D         | #3(EPD-13) | Flyback  |
| TPS23758  | LDT6003-50          | 36    | 36V-57V<br>250KHz | 10.5V<br>20mA | 5V/2.38A                                   | 150±7%          | D         | #2(EP-13)  | Flyback  |
|           | LDT0687-50          | 25    | 37V-57V<br>250KHz | 12V<br>20mA   | 5V/5A                                      | 50±10%          | E         | #5(EFD-17) | Flyback  |
| TPS23751  | LDT0666-50          | 25    | 37V-57V<br>250KHz | 12V<br>20mA   | 5V/5A                                      | 70±10%          | E         | #6(EFD-20) | Flyback  |

# PoE Applications - Texas Instruments

## Schematics:

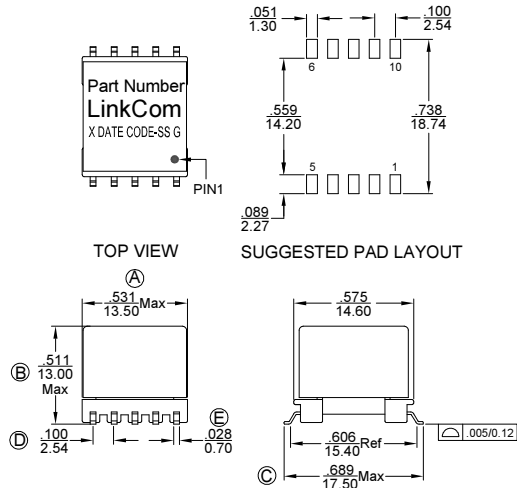




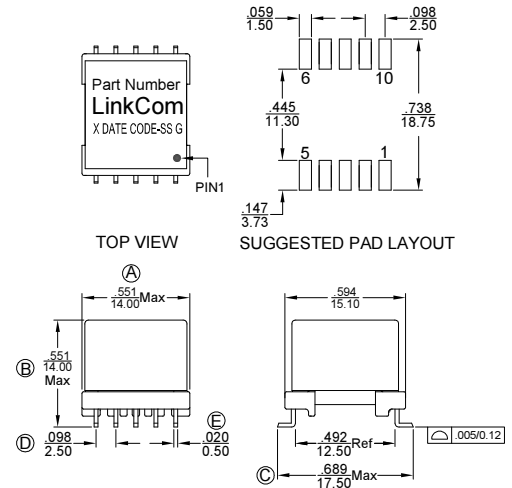
# PoE Applications - Texas Instruments

**Dimension:** (Units:  $\frac{\text{Inches}}{\text{mm}}$ )

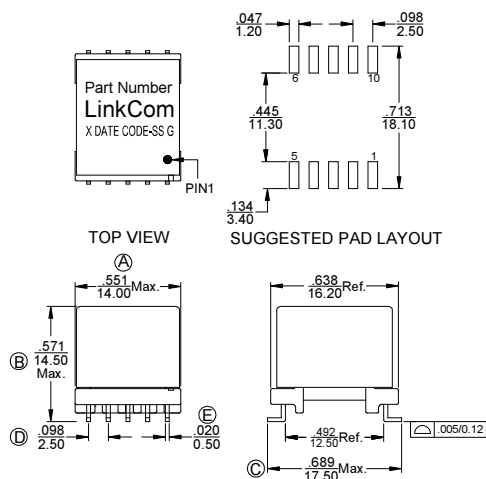
**#1 (EP-13)**



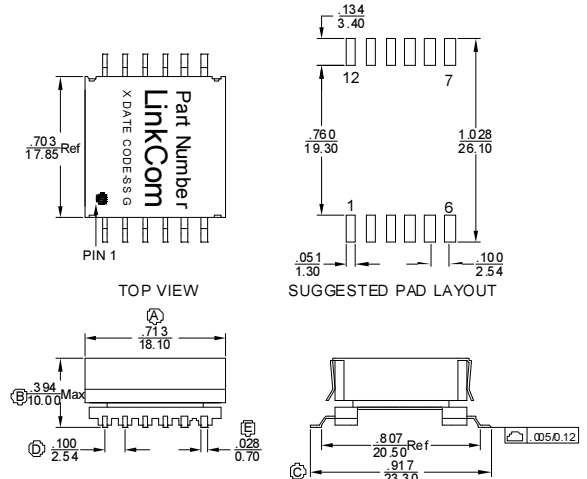
**#2 (EP-13)**



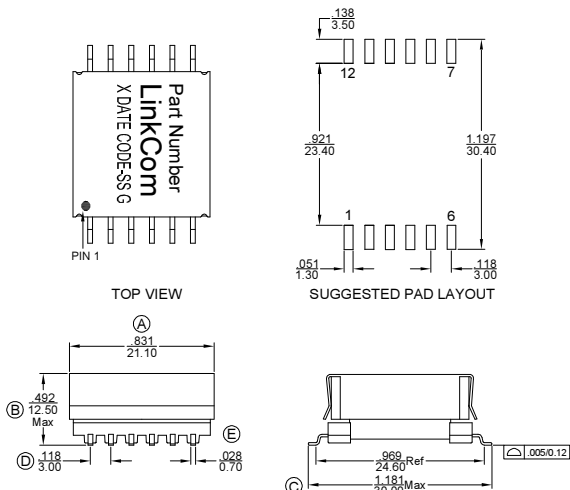
**#3 (EPD-13)**



**#4 (EFD-17)**



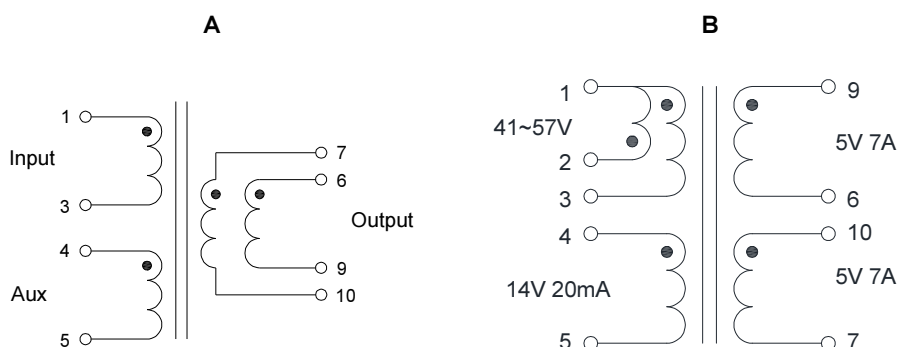
**#5 (EFD-20)**



# PoE Applications - Silicon Labs

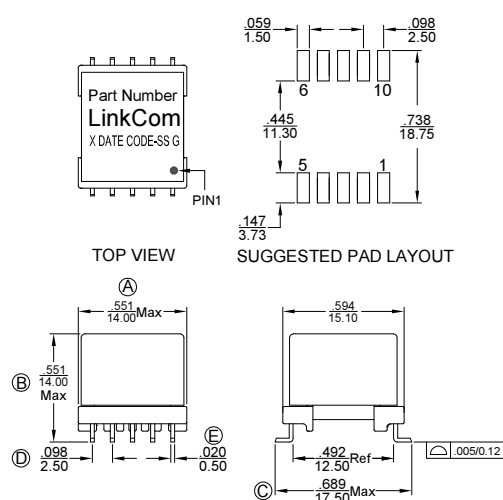
| Silicon Labs Part No. | LinkCom Part No. | WATTS | Input             | Aux           | Output       | Inductance (uH) | Schematic | Package | Topology |
|-----------------------|------------------|-------|-------------------|---------------|--------------|-----------------|-----------|---------|----------|
|                       | LDT0955-50       | 13    | 35V-57V<br>250KHz | 15V<br>20mA   | O: 12V/1.25A | 70±7%           | A         | #1      | Flyback  |
| Si34061               | LDT1020-50       | 30    | 35V-57V<br>250KHz | 15V<br>20mA   | O: 5V/6A     | 70±7%           | A         | #2      | Flyback  |
| Si34061               | LDT1026-50       | 25    | 36V-57V<br>220KHz | 14.5V<br>25mA | O: 12V/2.1A  | 80±7%           | A         | #2      | Flyback  |
| Si34071               | LDT1056-50       | 35    | 41V~57V           | 14V<br>20mA   | O: 5V/7A     | 100±15%         | B         | #2      | Flyback  |

## Schematics:

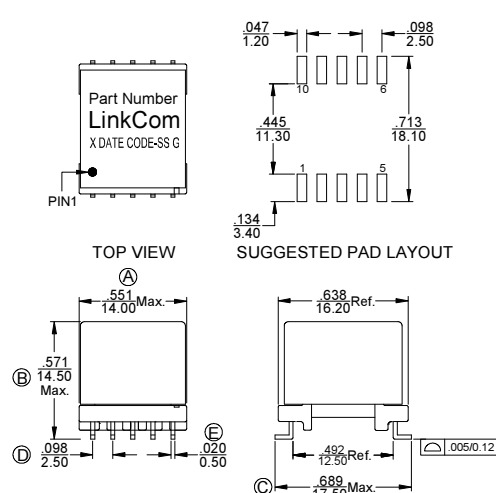


## Dimension: (Units: $\frac{\text{Inches}}{\text{mm}}$ )

#1 (EP-13)



#2 (EPD-13)

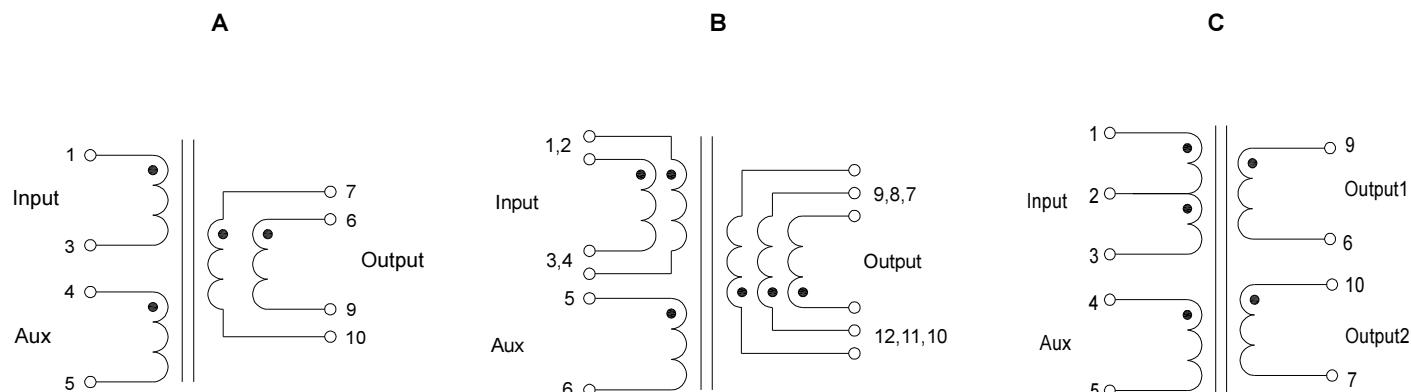


## PoE Applications - Customized

| LinkCom Part No. | Watts | Input          | Aux      | Output                       | Inductance (uH) | Schematic | Package | Topology |
|------------------|-------|----------------|----------|------------------------------|-----------------|-----------|---------|----------|
| LDT0811-50       | 13    | 33V-57V/200KHz | 12V/20mA | 3.3V/4A                      | 70±10%          | A         | #1      | Flyback  |
| LDT0812-50       | 13    | 33V-57V/200KHz | 12V/20mA | 5V/2.7A                      | 70±10%          | A         | #1      | Flyback  |
| LDT0813-50       | 13    | 33V-57V/200KHz | 12V/20mA | 12V/1.125A                   | 70±10%          | A         | #1      | Flyback  |
| LDT0821-50       | 25    | 37V-57V/250KHz | 12V/20mA | 3.3V/7.5A                    | 37±10%          | A         | #1      | Flyback  |
| LDT0822-50       | 25    | 37V-57V/250KHz | 12V/20mA | 5V/5A                        | 37±10%          | A         | #1      | Flyback  |
| LDT0823-50       | 25    | 37V-57V/250KHz | 12V/20mA | 12V/2.1A                     | 37±10%          | A         | #1      | Flyback  |
| LDT0952-50       | 25    | 33V-57V/200KHz | 12V/20mA | 12V/1.8A                     | 100±15%         | A         | #3      | Forward  |
| LDT1001-50       | 25    | 36V-57V/250KHz | 10V/20mA | O1:3.3V/3.5A<br>O2:3.3V/3.5A | 62±10%          | C         | #2      | Flyback  |
| LDT1002-50       | 30    | 36V-57V/250KHz | 10V/20mA | O1:5V/3A<br>O2:5V/3A         | 55±10%          | C         | #2      | Flyback  |
| LDT0696-50       | 30    | 36V-72V/250KHz | 12V/20mA | 5V/6A                        | 42±10%          | B         | #4      | Flyback  |
| LDT1003-50       | 36    | 36V-57V/250KHz | 10V/20mA | O1:12V/1.5A<br>O2:12V/1.5A   | 48±10%          | C         | #2      | Flyback  |
| LDT0817-50       | 50    | 36V-57V/250KHz | 12V/30mA | 12V/4.2A                     | 65±10%          | B         | #6      | Flyback  |

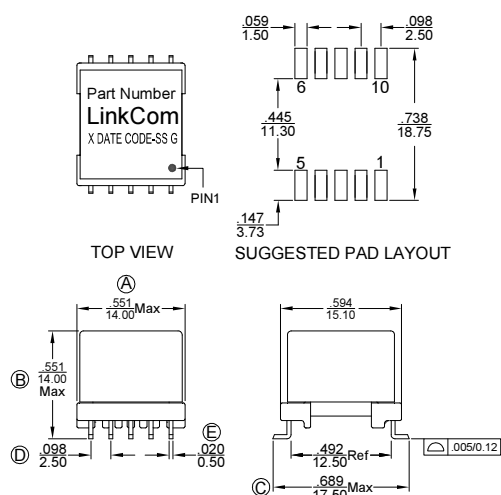
# PoE Applications - Customized

## Schematics:

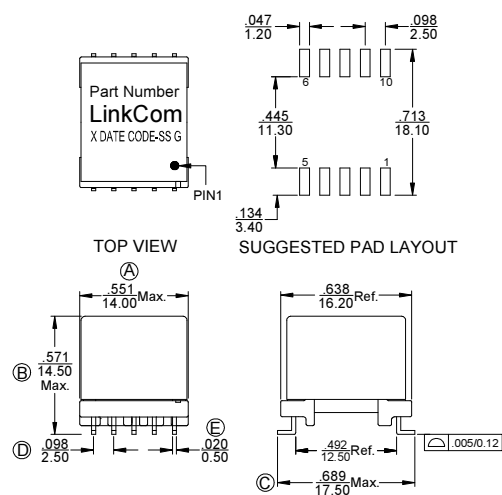


**Dimension:** (Units:  $\frac{\text{Inches}}{\text{mm}}$ )

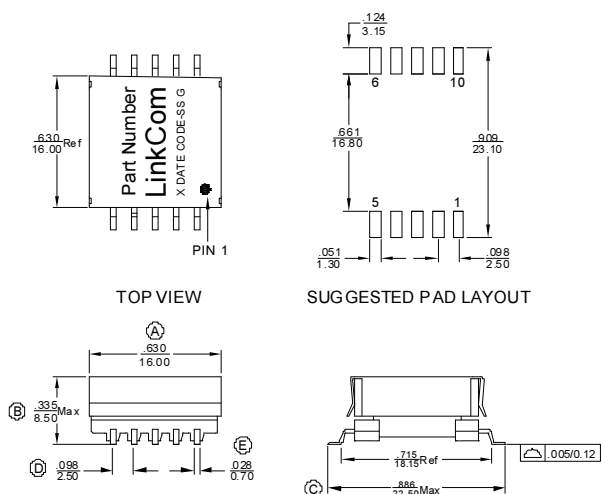
**#1 (EP-13)**



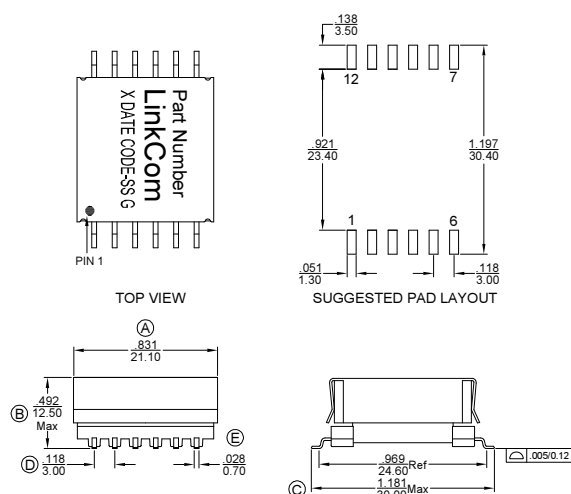
**#2 (EPD-13)**



**#3 (EFD-15)**

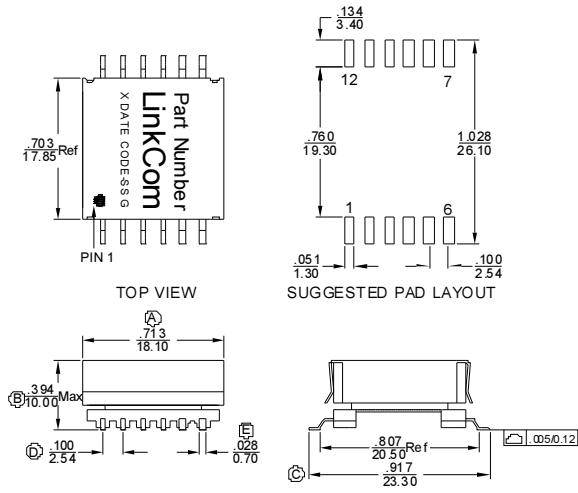


**#4 (EFD-20)**

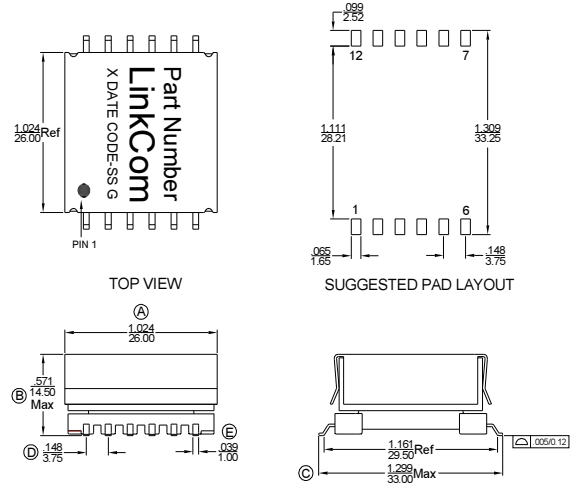


## PoE Applications - Customized

#5 (EFD-17)



#6 (EFD-25)

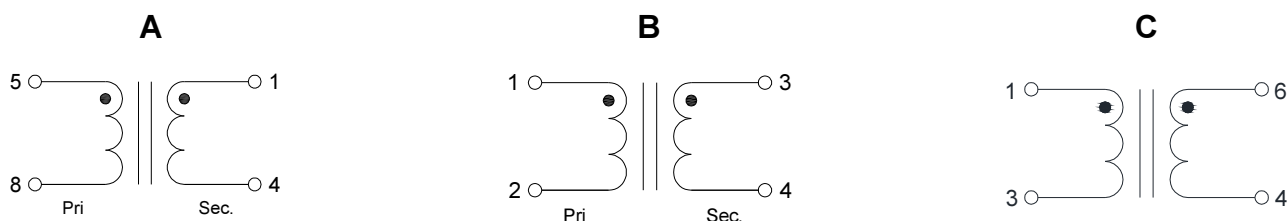


# Gate-Drive Transformers

- 1500V<sub>DC</sub> isolation between Gate and Drive
- Operating frequency: 50kHz and up

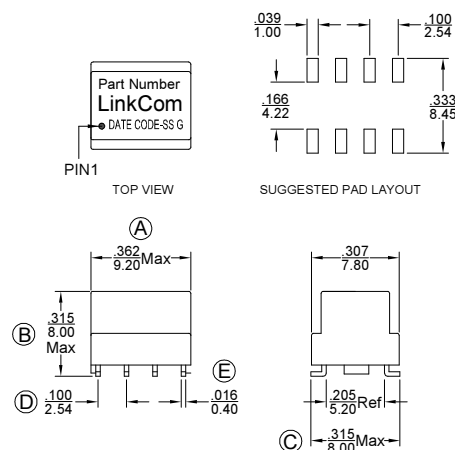
| LinkCom<br>Part No. | Turn Ratio | Primary inductance<br>Min. (mH) | ET<br>(V-usec) | Schematic | Package |
|---------------------|------------|---------------------------------|----------------|-----------|---------|
| LTC0266-50          | 1:1        | 1.000                           | 27.2           | A         | #1      |
| LTC0282-50          | 1:1        | 1.000                           | 27.2           | B         | #2      |
| LTC0557-50          | 1:1        | 0.785                           | 9.7            | C         | #3      |
| LTC0557-51          | 1:1        | 0.785                           | 9.7            | C         | #4      |

## Schematics:

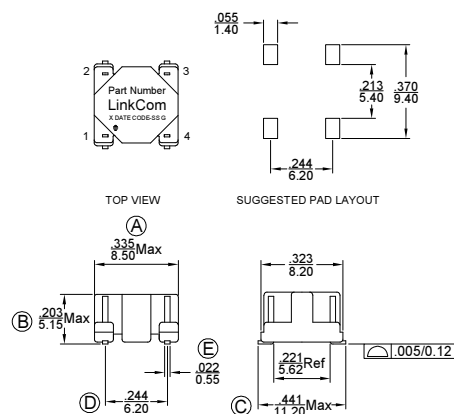


## Dimension: (Units: $\frac{\text{Inches}}{\text{mm}}$ )

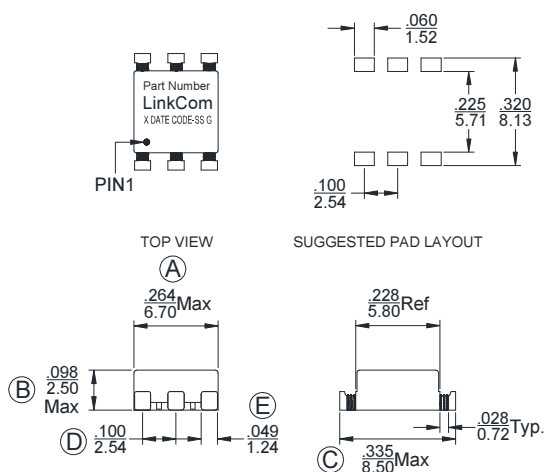
### #1



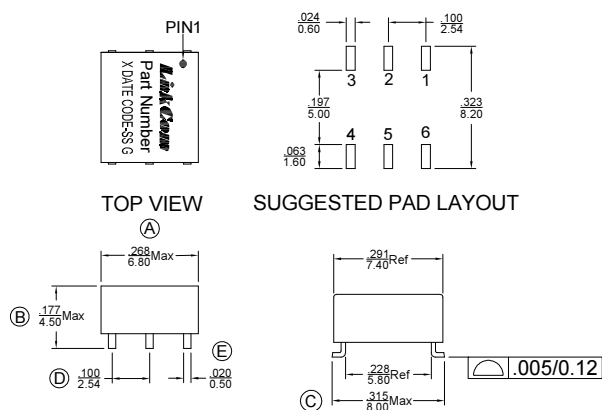
### #2



### #3



### #4



## Current Sense Transformers – EE5 Series

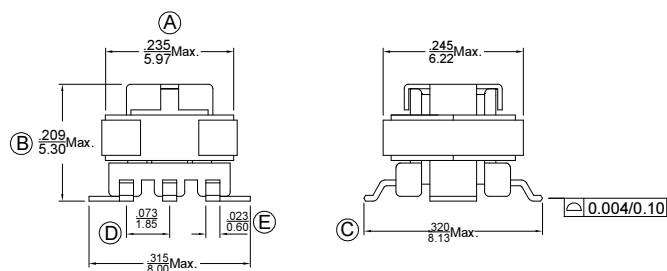
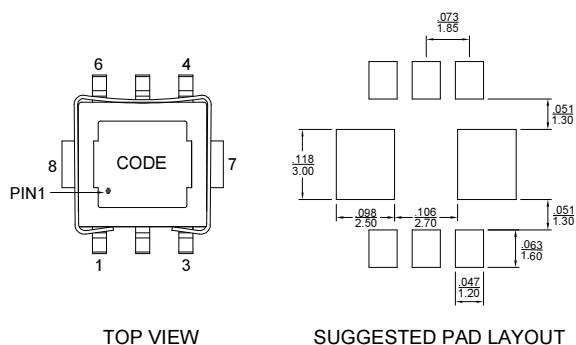
- RoHS Compliant
- Operating Temperature -40°C to +125°C
- 500Vrms isolation between windings
- Frequency up to 1MHz
- 10A typical rated current on primary (up to 20A)

### Electrical Specifications @25°C

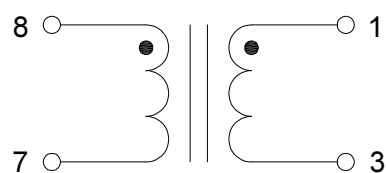
| Part Number | Code | Turns Ratio<br>Pri. : Sec. | Secondary Inductance<br>Min.(μH) | DCR               |                 | Volt-time<br>product on Sec.<br>Max.(V-μsec) | Terminating<br>Resistance<br>(1VSec./20APri.)<br>(Ω) |
|-------------|------|----------------------------|----------------------------------|-------------------|-----------------|----------------------------------------------|------------------------------------------------------|
|             |      |                            |                                  | Pri.<br>Ref.(mΩ). | Sec.<br>Max.(Ω) |                                              |                                                      |
| LCS0007-50  | 020  | 1:20                       | 81                               | 7                 | 0.40            | 10.8                                         | 1.00                                                 |
| LCS0008-50  | 030  | 1:30                       | 180                              | 7                 | 0.87            | 16.2                                         | 1.50                                                 |
| LCS0009-50  | 040  | 1:40                       | 320                              | 7                 | 1.14            | 21.6                                         | 2.00                                                 |
| LCS0010-50  | 050  | 1:50                       | 500                              | 7                 | 1.50            | 27.0                                         | 2.50                                                 |
| LCS0011-50  | 060  | 1:60                       | 730                              | 7                 | 1.98            | 32.4                                         | 3.00                                                 |
| LCS0012-50  | 070  | 1:70                       | 980                              | 7                 | 4.75            | 37.8                                         | 3.50                                                 |
| LCS0013-50  | 100  | 1:100                      | 2000                             | 7                 | 5.50            | 54.0                                         | 5.00                                                 |
| LCS0015-50  | 125  | 1:125                      | 3000                             | 7                 | 7.00            | 67.5                                         | 6.25                                                 |

### Dimensions

(Units:  $\frac{\text{Inches}}{\text{mm}}$  , Unless otherwise specified, all tolerances are  $\pm 0.010$  /  $\pm 0.25$  )



### Schematic



### Mark

Code----Number of turns on secondary

## Current Sense Transformers – EF12 Series

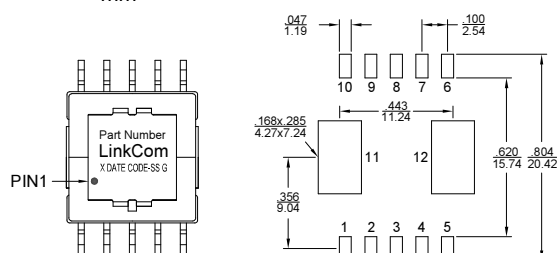
- RoHS Compliant
- Operating Temperature -40°C to +125°C
- 500Vrms isolation between windings
- Frequency up to 1MHz
- Up to 40A of rated current on primary

### Electrical Specifications @25°C

| Part Number | Turns Ratio<br>Pri. : Sec. | Secondary Inductance<br>Min.(mH) | D.C.R.            |                 | Volt-time<br>product on<br>Sec.<br>Max.(V-μsec) | Terminating<br>Resistance<br>(1VSec./40APri.)<br>(Ω) |
|-------------|----------------------------|----------------------------------|-------------------|-----------------|-------------------------------------------------|------------------------------------------------------|
|             |                            |                                  | Pri.<br>Ref.(mΩ). | Sec.<br>Max.(Ω) |                                                 |                                                      |
| LCS0027-50  | 1:20                       | 0.34                             | 1                 | 0.180           | 50.8                                            | 0.5                                                  |
| LCS0028-50  | 1:30                       | 0.76                             | 1                 | 0.265           | 76.2                                            | 0.8                                                  |
| LCS0029-50  | 1:40                       | 1.36                             | 1                 | 0.560           | 101.6                                           | 1.0                                                  |
| LCS0030-50  | 1:50                       | 2.12                             | 1                 | 0.705           | 127.0                                           | 1.3                                                  |
| LCS0031-50  | 1:60                       | 3.06                             | 1                 | 0.850           | 152.4                                           | 1.5                                                  |
| LCS0032-50  | 1:70                       | 4.16                             | 1                 | 1.00            | 177.8                                           | 1.8                                                  |
| LCS0033-50  | 1:80                       | 5.44                             | 1                 | 1.15            | 203.2                                           | 2.0                                                  |
| LCS0035-50  | 1:100                      | 8.50                             | 1                 | 1.45            | 254.0                                           | 2.5                                                  |
| LCS0036-50  | 1:125                      | 13.3                             | 1                 | 1.85            | 317.5                                           | 3.1                                                  |
| LCS0037-50  | 1:150                      | 19.2                             | 1                 | 2.25            | 381.0                                           | 3.8                                                  |
| LCS0038-50  | 1:200                      | 34.0                             | 1                 | 4.06            | 508.0                                           | 5.0                                                  |

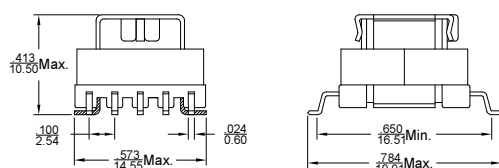
### Dimensions

(Units:  $\frac{\text{Inches}}{\text{mm}}$ , Unless otherwise specified, all tolerances are  $\pm \frac{.010}{0.25}$ )

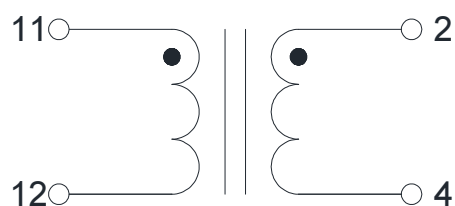


TOP VIEW

SUGGESTED PAD LAYOUT



### Schematic



### Mark

1. Part Number---LCSxxxx
2. X---PRODUCT LINE OR BLANK
3. DATE CODE---YYWW
4. SS---50 OR BLANK
5. G---RoHS





## SMD Power Inductors

### Features:

- Applicable at high frequency up to 1MHz
- Magnetic-resin shielded construction reduces buzz noise to ultra-low levels.
- Metallization on ferrite core results in excellent shock resistance and damage-free durability.
- Closed magnetic circuit design reduces leakage flux and Electro Magnetic Interference (EMI).
- 30% higher Current rating than conventional inductors of equal size.
- RoHS compliant.
- Operating Temperature Range -40°C~+125°C (Including self-heating)

### Applications:

- LED Lighting
- Flat-screen TVs, blue-ray disc recorders, set top box, movie cameras, smart phone
- Notebooks, desktop computers, servers, graphic cards
- Portable gaming devices, personal navigation systems, personal multimedia devices
- Telecomm base stations
- DC/DC converters

### Product Identification:

|     |       |   |   |     |   |   |   |    |
|-----|-------|---|---|-----|---|---|---|----|
| ①   | ②     | ③ |   | ④   | ⑤ | ⑥ |   | ⑦  |
| LNR | 2510A | A | - | 1R0 | M | R | - | 02 |

|     |                 |
|-----|-----------------|
| ①   | Type            |
| LNR | Power inductors |

|   |                               |
|---|-------------------------------|
| ③ | Electrical specification Code |
| A | A Type                        |
| B | B Type                        |

|       |                                     |
|-------|-------------------------------------|
| ②     | (L×W×H) [mm]<br>External Dimensions |
| 2510A | 2.5×2.1×1.0                         |
| 2512A | 2.5×2.1×1.2                         |
| 3010A | 3.0×3.0×1.05                        |
| 3015A | 3.0×3.0×1.5                         |
| 4012A | 4.0×4.0×1.2                         |
| 4018A | 4.0×4.0×1.8                         |
| 5020A | 5.0×5.0×2.0                         |
| 5040A | 5.0×5.0×4.0                         |
| 6020A | 6.0×6.0×2.0                         |
| 6028A | 6.0×6.0×2.8                         |
| 6045A | 6.0×6.0×4.5                         |
| 8040A | 8.0×8.0×4.0                         |

|     |                    |
|-----|--------------------|
| ④   | Nominal Inductance |
| 1R0 | 1.0μH              |
| 100 | 10.0μH             |

|   |                      |
|---|----------------------|
| ⑤ | Inductance Tolerance |
| K | ±10%                 |
| M | ±20%                 |
| N | ±30%                 |

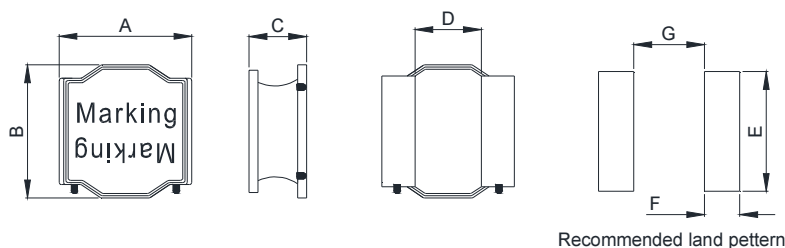
|          |                   |
|----------|-------------------|
| ⑥        | Packing           |
| Standard | Tape Reel Package |

|    |               |
|----|---------------|
| ⑦  | Internal code |
| 01 |               |
| 02 |               |



## SMD Power Inductors

### Shape And Dimensions [Unit: mm]



| Series    | A        | B        | C             | D       | E (Ref.) | F (Ref.) | G (Ref.) |
|-----------|----------|----------|---------------|---------|----------|----------|----------|
| LNR2510AA | 2.5±0.25 | 2.1±0.25 | 1.0 Max.      | 0.9     | 2.2      | 0.95     | 0.8      |
| LNR2512AA | 2.5±0.25 | 2.1±0.25 | 1.2 Max.      | 0.9     | 2.2      | 0.95     | 0.8      |
| LNR3010AA | 3.0±0.2  | 3.0±0.2  | 1.05 Max.     | 1.0     | 2.7      | 0.8      | 1.4      |
| LNR3015AA | 3.0±0.2  | 3.0±0.2  | 1.5 Max.      | 1.0     | 2.7      | 0.8      | 1.4      |
| LNR4012AA | 4.0±0.2  | 4.0±0.2  | 1.2+0.1/-0.15 | 1.4     | 3.7      | 1.2      | 1.6      |
| LNR4018AA | 4.0±0.2  | 4.0±0.2  | 1.8±0.2       | 1.4     | 3.7      | 1.2      | 1.6      |
| LNR5020AA | 5.0±0.2  | 5.0±0.2  | 2.0±0.2       | 2.0     | 4.7      | 1.4      | 2.4      |
| LNR5040AA | 5.0±0.2  | 5.0±0.2  | 4.0±0.2       | 2.0     | 4.7      | 1.4      | 2.4      |
| LNR6020AA | 6.0±0.2  | 6.0±0.2  | 2.0±0.2       | 2.7     | 5.7      | 1.6      | 3.1      |
| LNR6028AA | 6.0±0.2  | 6.0±0.2  | 2.8±0.2       | 2.7     | 5.7      | 1.6      | 3.1      |
| LNR6045AA | 6.0±0.2  | 6.0±0.2  | 4.5+0.2/-0.3  | 2.7     | 5.7      | 1.6      | 3.1      |
| LNR8040AA | 8.0±0.2  | 8.0±0.2  | 4.0+0.2/-0.3  | 3.9±0.2 | 7.7      | 2.3      | 3.8      |

### Electrical Characteristics

| LNR2510AA Series    |                    |                     |                   |                   |               |              |
|---------------------|--------------------|---------------------|-------------------|-------------------|---------------|--------------|
| P/N                 | Inductance<br>(μH) | Test Freq.<br>(MHz) | Tolerance<br>(±%) | DCR<br>(mΩ) (Max) | Isat<br>(Max) | Idc<br>(Max) |
| LNR2510A A-R33MR-02 | 0.33               | 1.0                 | 20                | 39                | 5.50          | 4.00         |
| LNR2510A A-R47MR-02 | 0.47               | 1.0                 | 20                | 45                | 5.20          | 3.60         |
| LNR2510A A-R68MR-02 | 0.68               | 1.0                 | 20                | 59                | 3.60          | 3.00         |
| LNR2510A A-1R0MR-02 | 1.0                | 1.0                 | 20                | 76                | 3.50          | 2.70         |
| LNR2510A A-1R5MR-02 | 1.5                | 1.0                 | 20                | 100               | 3.00          | 2.05         |
| LNR2510A A-2R2MR-02 | 2.2                | 1.0                 | 20                | 135               | 2.40          | 1.90         |
| LNR2510A A-3R3MR-02 | 3.3                | 1.0                 | 20                | 235               | 1.80          | 1.50         |
| LNR2510A A-4R7MR-02 | 4.7                | 1.0                 | 20                | 276               | 1.50          | 1.30         |
| LNR2510A A-6R8MR-02 | 6.8                | 1.0                 | 20                | 416               | 1.30          | 1.12         |
| LNR2510A A-100MR-02 | 10                 | 1.0                 | 20                | 500               | 1.20          | 0.95         |
| LNR2510A A-220MR-02 | 22                 | 1.0                 | 20                | 1300              | 0.80          | 0.65         |



## SMD Power Inductors

| LNR2512AA Series   |                          |                     |                         |                            |               |              |
|--------------------|--------------------------|---------------------|-------------------------|----------------------------|---------------|--------------|
| P/N                | Inductance<br>( $\mu$ H) | Test Freq.<br>(MHz) | Tolerance<br>( $\pm$ %) | DCR<br>(m $\Omega$ ) (Max) | Isat<br>(Max) | Idc<br>(Max) |
| LNR2512AA-R33MR-02 | 0.33                     | 1.0                 | 20                      | 30                         | 6.20          | 4.00         |
| LNR2512AA-R47MR-02 | 0.47                     | 1.0                 | 20                      | 35                         | 5.60          | 4.00         |
| LNR2512AA-R68MR-02 | 0.68                     | 1.0                 | 20                      | 43                         | 5.50          | 3.40         |
| LNR2512AA-1R0MR-02 | 1.0                      | 1.0                 | 20                      | 64                         | 4.40          | 3.00         |
| LNR2512AA-1R5MR-02 | 1.5                      | 1.0                 | 20                      | 85                         | 3.60          | 2.53         |
| LNR2512AA-2R2MR-02 | 2.2                      | 1.0                 | 20                      | 120                        | 3.00          | 2.18         |
| LNR2512AA-3R3MR-02 | 3.3                      | 1.0                 | 20                      | 163                        | 2.10          | 1.75         |
| LNR2512AA-4R7MR-02 | 4.7                      | 1.0                 | 20                      | 260                        | 1.90          | 1.31         |
| LNR2512AA-6R8MR-02 | 6.8                      | 1.0                 | 20                      | 366                        | 1.50          | 1.15         |
| LNR2512AA-100MR-02 | 10                       | 1.0                 | 20                      | 480                        | 1.25          | 0.99         |
| LNR2512AA-150MR-02 | 15                       | 1.0                 | 20                      | 774                        | 1.05          | 0.77         |
| LNR2512AA-220MR-02 | 22                       | 1.0                 | 20                      | 1210                       | 0.80          | 0.65         |

| LNR3010AA Series   |                          |                     |                         |                                |               |              |
|--------------------|--------------------------|---------------------|-------------------------|--------------------------------|---------------|--------------|
| P/N                | Inductance<br>( $\mu$ H) | Test Freq.<br>(MHz) | Tolerance<br>( $\pm$ %) | DCR<br>(m $\Omega$ ) $\pm$ 30% | Isat<br>(Max) | Idc<br>(Max) |
| LNR3010AA-1R5NR-02 | 1.5                      | 1.0                 | 30                      | 85                             | 1.62          | 1.53         |
| LNR3010AA-2R2NR-02 | 2.2                      | 1.0                 | 30                      | 100                            | 1.35          | 1.26         |
| LNR3010AA-3R3NR-02 | 3.3                      | 1.0                 | 30                      | 165                            | 1.08          | 0.99         |
| LNR3010AA-4R7NR-02 | 4.7                      | 1.0                 | 30                      | 205                            | 0.90          | 0.85         |
| LNR3010AA-6R8MR-02 | 6.8                      | 1.0                 | 20                      | 310                            | 0.78          | 0.76         |
| LNR3010AA-100MR-02 | 10                       | 1.0                 | 20                      | 430                            | 0.57          | 0.56         |
| LNR3010AA-150MR-02 | 15                       | 1.0                 | 20                      | 625                            | 0.50          | 0.49         |
| LNR3010AA-220MR-02 | 22                       | 1.0                 | 20                      | 1095                           | 0.42          | 0.41         |



## SMD Power Inductors

| LNR3015AA Series   |                          |                     |                         |                                |               |              |
|--------------------|--------------------------|---------------------|-------------------------|--------------------------------|---------------|--------------|
| P/N                | Inductance<br>( $\mu$ H) | Test Freq.<br>(MHz) | Tolerance<br>( $\pm$ %) | DCR<br>(m $\Omega$ ) $\pm$ 30% | Isat<br>(Max) | Idc<br>(Max) |
| LNR3015AA-R47NR-02 | 0.47                     | 1.0                 | 30                      | 36                             | 4.23          | 3.60         |
| LNR3015AA-1R0NR-02 | 1.0                      | 1.0                 | 30                      | 54                             | 3.06          | 2.70         |
| LNR3015AA-1R5NR-02 | 1.5                      | 1.0                 | 30                      | 63                             | 2.70          | 2.34         |
| LNR3015AA-2R2NR-02 | 2.2                      | 1.0                 | 30                      | 90                             | 2.07          | 1.80         |
| LNR3015AA-3R3NR-02 | 3.3                      | 1.0                 | 30                      | 125                            | 1.71          | 1.62         |
| LNR3015AA-4R7NR-02 | 4.7                      | 1.0                 | 30                      | 170                            | 1.42          | 1.36         |
| LNR3015AA-6R8MR-02 | 6.8                      | 1.0                 | 20                      | 235                            | 1.20          | 1.17         |
| LNR3015AA-100MR-02 | 10                       | 1.0                 | 20                      | 360                            | 0.95          | 0.90         |
| LNR3015AA-150MR-02 | 15                       | 1.0                 | 20                      | 550                            | 0.81          | 0.72         |
| LNR3015AA-220MR-02 | 22                       | 1.0                 | 20                      | 770                            | 0.68          | 0.58         |

| LNR4012AA Series   |                          |                     |                         |                                |               |              |
|--------------------|--------------------------|---------------------|-------------------------|--------------------------------|---------------|--------------|
| P/N                | Inductance<br>( $\mu$ H) | Test Freq.<br>(MHz) | Tolerance<br>( $\pm$ %) | DCR<br>(m $\Omega$ ) $\pm$ 30% | Isat<br>(Max) | Idc<br>(Max) |
| LNR4012AA-1R0NR-02 | 1.0                      | 1.0                 | 30                      | 40                             | 2.61          | 2.7          |
| LNR4012AA-1R5NR-02 | 1.5                      | 1.0                 | 30                      | 51                             | 2.07          | 2.25         |
| LNR4012AA-2R2NR-02 | 2.2                      | 1.0                 | 30                      | 68                             | 1.71          | 2.07         |
| LNR4012AA-3R3NR-02 | 3.3                      | 1.0                 | 30                      | 75                             | 1.36          | 1.89         |
| LNR4012AA-4R7NR-02 | 4.7                      | 1.0                 | 30                      | 110                            | 1.18          | 1.62         |
| LNR4012AA-6R8MR-02 | 6.8                      | 1.0                 | 20                      | 165                            | 0.97          | 1.35         |
| LNR4012AA-100MR-02 | 10                       | 1.0                 | 20                      | 225                            | 0.81          | 1.08         |

| LNR4018AA Series   |                          |                     |                         |                                |               |              |
|--------------------|--------------------------|---------------------|-------------------------|--------------------------------|---------------|--------------|
| P/N                | Inductance<br>( $\mu$ H) | Test Freq.<br>(MHz) | Tolerance<br>( $\pm$ %) | DCR<br>(m $\Omega$ ) $\pm$ 30% | Isat<br>(Max) | Idc<br>(Max) |
| LNR4018AA-1R0NR-02 | 1.0                      | 1.0                 | 30                      | 26.5                           | 3.78          | 3.42         |
| LNR4018AA-1R5NR-02 | 1.5                      | 1.0                 | 30                      | 37                             | 3.15          | 2.88         |
| LNR4018AA-2R2NR-02 | 2.2                      | 1.0                 | 30                      | 47                             | 2.70          | 2.43         |
| LNR4018AA-3R3NR-02 | 3.3                      | 1.0                 | 30                      | 62.5                           | 2.07          | 1.89         |
| LNR4018AA-4R7NR-02 | 4.7                      | 1.0                 | 30                      | 80                             | 1.80          | 1.62         |
| LNR4018AA-6R8MR-02 | 6.8                      | 1.0                 | 20                      | 115                            | 1.35          | 1.21         |
| LNR4018AA-100MR-02 | 10                       | 1.0                 | 20                      | 185                            | 1.26          | 1.08         |



## SMD Power Inductors

| LNR5020AA Series   |                          |                     |                         |                                |               |              |
|--------------------|--------------------------|---------------------|-------------------------|--------------------------------|---------------|--------------|
| P/N                | Inductance<br>( $\mu$ H) | Test Freq.<br>(MHz) | Tolerance<br>( $\pm$ %) | DCR<br>(m $\Omega$ ) $\pm$ 30% | Isat<br>(Max) | Idc<br>(Max) |
| LNR5020AA-1R0NR-02 | 1.0                      | 1.0                 | 30                      | 18                             | 5.40          | 3.69         |
| LNR5020AA-1R5NR-02 | 1.5                      | 1.0                 | 30                      | 23                             | 4.41          | 3.15         |
| LNR5020AA-2R2NR-02 | 2.2                      | 1.0                 | 30                      | 30                             | 3.60          | 2.97         |
| LNR5020AA-3R3NR-02 | 3.3                      | 1.0                 | 30                      | 50                             | 2.70          | 2.50         |
| LNR5020AA-4R7NR-02 | 4.7                      | 1.0                 | 30                      | 60                             | 2.43          | 1.98         |
| LNR5020AA-6R8MR-02 | 6.8                      | 1.0                 | 20                      | 93                             | 1.98          | 1.62         |
| LNR5020AA-100MR-02 | 10                       | 1.0                 | 20                      | 125                            | 1.62          | 1.44         |
| LNR5020AA-150MR-02 | 15                       | 1.0                 | 20                      | 195                            | 1.26          | 1.08         |
| LNR5020AA-220MR-02 | 22                       | 1.0                 | 20                      | 265                            | 1.08          | 0.90         |

| LNR5040AA Series   |                          |                     |                         |                                |               |              |
|--------------------|--------------------------|---------------------|-------------------------|--------------------------------|---------------|--------------|
| P/N                | Inductance<br>( $\mu$ H) | Test Freq.<br>(MHz) | Tolerance<br>( $\pm$ %) | DCR<br>(m $\Omega$ ) $\pm$ 30% | Isat<br>(Max) | Idc<br>(Max) |
| LNR5040AA-1R0NR-02 | 1.0                      | 1.0                 | 30                      | 12                             | 7.92          | 5.31         |
| LNR5040AA-1R5NR-02 | 1.5                      | 1.0                 | 30                      | 14                             | 7.11          | 4.86         |
| LNR5040AA-2R2NR-02 | 2.2                      | 1.0                 | 30                      | 20                             | 6.12          | 4.05         |
| LNR5040AA-3R3NR-02 | 3.3                      | 1.0                 | 30                      | 26                             | 4.77          | 3.78         |
| LNR5040AA-4R7NR-02 | 4.7                      | 1.0                 | 30                      | 32                             | 3.96          | 2.88         |
| LNR5040AA-6R8MR-02 | 6.8                      | 1.0                 | 20                      | 50                             | 3.42          | 2.7          |
| LNR5040AA-100MR-02 | 10                       | 1.0                 | 20                      | 70                             | 2.70          | 2.07         |
| LNR5040AA-150MR-02 | 15                       | 1.0                 | 20                      | 115                            | 2.16          | 1.62         |
| LNR5040AA-220MR-02 | 22                       | 1.0                 | 20                      | 160                            | 1.80          | 1.44         |



## SMD Power Inductors

| LNR6020AA Series   |                          |                     |                         |                                |               |              |
|--------------------|--------------------------|---------------------|-------------------------|--------------------------------|---------------|--------------|
| P/N                | Inductance<br>( $\mu$ H) | Test Freq.<br>(MHz) | Tolerance<br>( $\pm$ %) | DCR<br>(m $\Omega$ ) $\pm$ 30% | Isat<br>(Max) | Idc<br>(Max) |
| LNR6020AA-1R0NR-02 | 1.0                      | 1.0                 | 30                      | 19                             | 5.76          | 3.78         |
| LNR6020AA-1R5NR-02 | 1.5                      | 1.0                 | 30                      | 26                             | 4.86          | 3.33         |
| LNR6020AA-2R2NR-02 | 2.2                      | 1.0                 | 30                      | 34                             | 4.05          | 2.97         |
| LNR6020AA-3R3NR-02 | 3.3                      | 1.0                 | 30                      | 45                             | 3.24          | 2.52         |
| LNR6020AA-4R7NR-02 | 4.7                      | 1.0                 | 30                      | 58                             | 2.70          | 2.07         |
| LNR6020AA-6R8MR-02 | 6.8                      | 1.0                 | 20                      | 85                             | 2.34          | 1.71         |
| LNR6020AA-100MR-02 | 10                       | 1.0                 | 20                      | 130                            | 1.89          | 1.44         |
| LNR6020AA-150MR-02 | 15                       | 1.0                 | 20                      | 195                            | 1.44          | 1.17         |
| LNR6020AA-220MR-02 | 22                       | 1.0                 | 20                      | 260                            | 1.17          | 0.99         |

| LNR6028AA Series   |                          |                     |                         |                                |               |              |
|--------------------|--------------------------|---------------------|-------------------------|--------------------------------|---------------|--------------|
| P/N                | Inductance<br>( $\mu$ H) | Test Freq.<br>(MHz) | Tolerance<br>( $\pm$ %) | DCR<br>(m $\Omega$ ) $\pm$ 30% | Isat<br>(Max) | Idc<br>(Max) |
| LNR6028AA-1R0NR-02 | 1.0                      | 1.0                 | 30                      | 12                             | 7.11          | 5.67         |
| LNR6028AA-1R5NR-02 | 1.5                      | 1.0                 | 30                      | 15                             | 6.30          | 4.95         |
| LNR6028AA-2R2NR-02 | 2.2                      | 1.0                 | 30                      | 20                             | 5.40          | 4.50         |
| LNR6028AA-3R3NR-02 | 3.3                      | 1.0                 | 30                      | 27                             | 4.05          | 3.60         |
| LNR6028AA-4R7NR-02 | 4.7                      | 1.0                 | 30                      | 36                             | 3.60          | 3.06         |
| LNR6028AA-6R8MR-02 | 6.8                      | 1.0                 | 20                      | 48                             | 2.88          | 2.70         |
| LNR6028AA-100MR-02 | 10                       | 1.0                 | 20                      | 65                             | 2.34          | 2.25         |
| LNR6028AA-150MR-02 | 15                       | 1.0                 | 20                      | 93                             | 1.89          | 1.80         |
| LNR6028AA-220MR-02 | 22                       | 1.0                 | 20                      | 135                            | 1.53          | 1.48         |

| LNR6045AA Series   |                          |                     |                         |                                |               |              |
|--------------------|--------------------------|---------------------|-------------------------|--------------------------------|---------------|--------------|
| P/N                | Inductance<br>( $\mu$ H) | Test Freq.<br>(MHz) | Tolerance<br>( $\pm$ %) | DCR<br>(m $\Omega$ ) $\pm$ 30% | Isat<br>(Max) | Idc<br>(Max) |
| LNR6045AA-1R5NR-02 | 1.5                      | 1.0                 | 30                      | 12                             | 10.80         | 5.94         |
| LNR6045AA-2R2NR-02 | 2.2                      | 1.0                 | 30                      | 18                             | 8.55          | 4.68         |
| LNR6045AA-3R3NR-02 | 3.3                      | 1.0                 | 30                      | 22                             | 7.02          | 3.96         |
| LNR6045AA-4R7NR-02 | 4.7                      | 1.0                 | 30                      | 30                             | 6.12          | 3.6          |
| LNR6045AA-6R8MR-02 | 6.8                      | 1.0                 | 20                      | 42                             | 5.13          | 2.97         |
| LNR6045AA-100MR-02 | 10                       | 1.0                 | 20                      | 60                             | 4.14          | 2.34         |
| LNR6045AA-150MR-02 | 15                       | 1.0                 | 20                      | 90                             | 3.42          | 1.98         |
| LNR6045AA-220MR-02 | 22                       | 1.0                 | 20                      | 130                            | 2.97          | 1.71         |

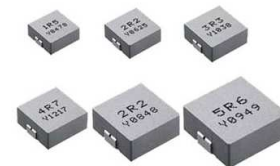


## SMD Power Inductors

| LNR8040AA Series   |                          |                     |                         |                                |               |              |
|--------------------|--------------------------|---------------------|-------------------------|--------------------------------|---------------|--------------|
| P/N                | Inductance<br>( $\mu$ H) | Test Freq.<br>(MHz) | Tolerance<br>( $\pm$ %) | DCR<br>(m $\Omega$ ) $\pm$ 30% | Isat<br>(Max) | Idc<br>(Max) |
| LNR8040AA-1R0NR-02 | 1.0                      | 1.0                 | 30                      | 7.5                            | 12.15         | 7.29         |
| LNR8040AA-1R5NR-02 | 1.5                      | 1.0                 | 30                      | 9.7                            | 9.45          | 6.93         |
| LNR8040AA-2R2NR-02 | 2.2                      | 1.0                 | 30                      | 12                             | 8.73          | 6.48         |
| LNR8040AA-3R3NR-02 | 3.3                      | 1.0                 | 30                      | 17                             | 7.20          | 5.31         |
| LNR8040AA-4R7NR-02 | 4.7                      | 1.0                 | 30                      | 20                             | 6.12          | 4.95         |
| LNR8040AA-6R8MR-02 | 6.8                      | 1.0                 | 20                      | 29                             | 5.22          | 4.41         |
| LNR8040AA-100MR-02 | 10                       | 1.0                 | 20                      | 38                             | 4.50          | 3.42         |
| LNR8040AA-150MR-02 | 15                       | 1.0                 | 20                      | 57                             | 3.60          | 2.88         |
| LNR8040AA-220MR-02 | 22                       | 1.0                 | 20                      | 82                             | 3.06          | 2.43         |

### NOTE :

- ◎ Testing frequency: 1MHz/1V
- ◎ All test Data is referenced to 20°C ambient
- ◎ Typical Heat Rating DC Current (Idc) would cause NR approximately  $\Delta T$  of 40°C
- ◎ Typical Saturation DC Current (Isat) would cause open load inductance to drop approximately 30%



## Molding Power Inductors

### Features:

- Magnetic-resin shielded construction reduces buzz noise to ultra-low levels.
- Metallization on ferrite core results in excellent shock resistance and damage-free durability.
- Closed magnetic circuit design reduces leakage flux and Electro Magnetic Interference (EMI).
- Applicable at high frequency up to 750kHz.
- RoHS compliant.
- Operating Temperature Range -40°C~+125°C (Including self-heating)

### Applications:

- LED Lighting
- Flat-screen TVs, blue-ray disc recorders, set top box, movie cameras, smart phone
- Notebooks, desktop computers, servers, graphic cards
- Portable gaming devices, personal navigation systems, personal multimedia devices
- Telecomm base stations
- VRM for server

### Product Identification:

| ①   | ②     | ③ |   | ④   | ⑤ | ⑥ |   | ⑦  |
|-----|-------|---|---|-----|---|---|---|----|
| LML | 0412A | A | - | 1R0 | M | R | - | 02 |

| ①   | Type                    |
|-----|-------------------------|
| LML | Molding Power inductors |

| ②     | (L×W×H) [mm]<br>External Dimensions |
|-------|-------------------------------------|
| 0420A | 4.1x4.6x2.0                         |
| 0530A | 5.2x5.4x2.8                         |
| 0612A | 6.6x7.1x1.0                         |
| 0618A | 6.6x7.1x1.6                         |
| 0624A | 6.6x7.1x2.4                         |
| 0630A | 6.6x7.1x3.0                         |

| ③ | Electrical specification Code |
|---|-------------------------------|
| A | A Type                        |
| B | B Type                        |

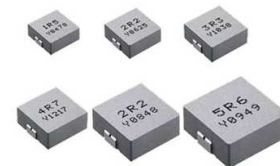
| ④   | Nominal Inductance |
|-----|--------------------|
| 1R0 | 1.0μH              |
| 100 | 10.0μH             |

| ⑤ | Inductance Tolerance |
|---|----------------------|
| K | ±10%                 |
| M | ±20%                 |
| N | ±30%                 |

| ⑥        | Packing           |
|----------|-------------------|
| Standard | Tape Reel Package |

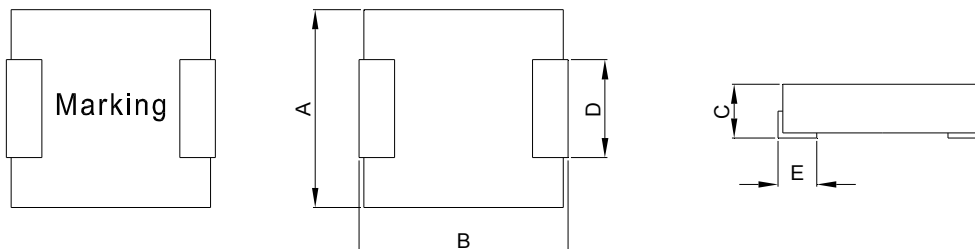
| ⑦  | Internal code |
|----|---------------|
| 01 |               |
| 02 |               |





## Molding Power Inductors

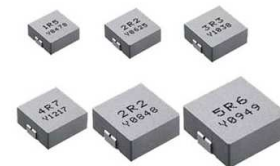
### Shape And Dimensions [Unit: mm]



| Series    | A       | B       | C        | D       | E       |
|-----------|---------|---------|----------|---------|---------|
| LML0420AA | 4.1±0.2 | 4.6±0.2 | 2.0 Max. | 1.5±0.3 | 1.0±0.5 |
| LML0530AA | 5.2±0.2 | 5.4±0.3 | 2.8±0.2  | 2.2±0.3 | 1.2±0.2 |
| LML0612AA | 6.6±0.2 | 7.1±0.2 | 1.0±0.2  | 2.9±0.1 | 1.8±0.3 |
| LML0618AA | 6.6±0.2 | 7.1±0.3 | 1.6±0.2  | 3.0±0.3 | 1.6±0.5 |
| LML0624AA | 6.6±0.2 | 7.1±0.3 | 2.4 Max. | 3.0±0.3 | 1.6±0.5 |
| LML0630AA | 6.6±0.2 | 7.1±0.3 | 3.0 Max. | 3.0±0.3 | 1.6±0.5 |

### Electrical Characteristics

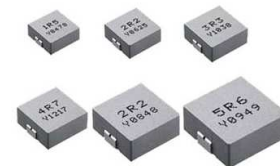
| LML0420AA Series   |                    |                     |                   |                  |               |              |
|--------------------|--------------------|---------------------|-------------------|------------------|---------------|--------------|
| P/N                | Inductance<br>(μH) | Test Freq.<br>(MHz) | Tolerance<br>(±%) | DCR<br>(mΩ) ±30% | Isat<br>(Max) | Idc<br>(Max) |
| LML0420AA-R10MR-02 | 0.10               | 100                 | 20                | 4.0              | 27.0          | 13.0         |
| LML0420AA-R22MR-02 | 0.22               | 100                 | 20                | 6.6              | 21.0          | 9.5          |
| LML0420AA-R47MR-02 | 0.47               | 100                 | 20                | 14.0             | 11.0          | 7.5          |
| LML0420AA-R56MR-02 | 0.56               | 100                 | 20                | 16.0             | 11.0          | 7.0          |
| LML0420AA-R68MR-02 | 0.68               | 100                 | 20                | 18.0             | 8.6           | 7.0          |
| LML0420AA-1R0MR-02 | 1.0                | 100                 | 20                | 27.0             | 7.0           | 4.5          |
| LML0420AA-1R2MR-02 | 1.2                | 100                 | 20                | 27.0             | 6.5           | 4.5          |
| LML0420AA-1R5MR-02 | 1.5                | 100                 | 20                | 46.0             | 6.0           | 4.0          |
| LML0420AA-2R2MR-02 | 2.2                | 100                 | 20                | 58.0             | 5.0           | 3.0          |
| LML0420AA-3R3MR-02 | 3.3                | 100                 | 20                | 87.0             | 4.0           | 2.5          |
| LML0420AA-4R7MR-02 | 4.7                | 100                 | 20                | 105.0            | 3.0           | 2.2          |
| LML0420AA-6R8MR-02 | 6.8                | 100                 | 20                | 135.0            | 3.0           | 2.0          |
| LML0420AA-100MR-02 | 10                 | 100                 | 20                | 258.0            | 2.0           | 1.6          |



## Molding Power Inductors

| LML0530AA Series   |                          |                     |                         |                                |               |              |
|--------------------|--------------------------|---------------------|-------------------------|--------------------------------|---------------|--------------|
| P/N                | Inductance<br>( $\mu$ H) | Test Freq.<br>(MHz) | Tolerance<br>( $\pm$ %) | DCR<br>(m $\Omega$ ) $\pm$ 30% | Isat<br>(Max) | Idc<br>(Max) |
| LML0530AA-R20MR-02 | 0.20                     | 100                 | 20                      | 3.9                            | 17.0          | 14.0         |
| LML0530AA-R47MR-02 | 0.47                     | 100                 | 20                      | 8.0                            | 15.0          | 11.0         |
| LML0530AA-R68MR-02 | 0.68                     | 100                 | 20                      | 12.0                           | 13.0          | 9.0          |
| LML0530AA-1R0MR-02 | 1.0                      | 100                 | 20                      | 14.0                           | 11.0          | 8.1          |
| LML0530AA-1R2MR-02 | 1.2                      | 100                 | 20                      | 16.0                           | 11.0          | 8.1          |
| LML0530AA-1R5MR-02 | 1.5                      | 100                 | 20                      | 25.0                           | 10.0          | 7.2          |
| LML0530AA-2R2MR-02 | 2.2                      | 100                 | 20                      | 29.0                           | 7.5           | 5.5          |
| LML0530AA-3R3MR-02 | 3.3                      | 100                 | 20                      | 38.0                           | 6.0           | 4.8          |
| LML0530AA-4R7MR-02 | 4.7                      | 100                 | 20                      | 60.0                           | 5.0           | 4.5          |
| LML0530AA-6R8MR-02 | 6.8                      | 100                 | 20                      | 90.0                           | 4.0           | 3.5          |
| LML0530AA-100MR-02 | 10                       | 100                 | 20                      | 125.0                          | 3.5           | 2.5          |

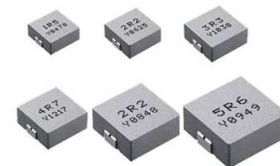
| LML0612AA Series   |                          |                     |                     |                           |             |            |
|--------------------|--------------------------|---------------------|---------------------|---------------------------|-------------|------------|
| P/N                | Inductance<br>( $\mu$ H) | Test Freq.<br>(KHz) | Tolerance<br>(+/-%) | DCR<br>(m $\Omega$ ) Max. | Isat (Typ.) | Idc (Typ.) |
| LML0612AA-R56MR-02 | 0.56                     | 100                 | 20                  | 15.5                      | 11.0        | 8.0        |
| LML0612AA-R68MR-02 | 0.68                     | 100                 | 20                  | 17.5                      | 9.5         | 7.0        |
| LML0612AA-1R0MR-02 | 1.0                      | 100                 | 20                  | 29.0                      | 7.5         | 6.0        |
| LML0612AA-2R2MR-02 | 2.2                      | 100                 | 20                  | 58.0                      | 5.0         | 4.0        |
| LML0612AA-3R3MR-02 | 3.3                      | 100                 | 20                  | 92.0                      | 4.0         | 3.5        |
| LML0612AA-4R7MR-02 | 4.7                      | 100                 | 20                  | 122.0                     | 3.5         | 2.8        |
| LML0612AA-6R8MR-02 | 6.8                      | 100                 | 20                  | 210.0                     | 2.8         | 2.1        |
| LML0612AA-100MR-02 | 10                       | 100                 | 20                  | 280.0                     | 2.2         | 2.0        |



## Molding Power Inductors

| <b>LML0618AA Series</b> |                    |                     |                     |                  |                |               |
|-------------------------|--------------------|---------------------|---------------------|------------------|----------------|---------------|
| P/N                     | Inductance<br>(uH) | Test Freq.<br>(KHz) | Tolerance<br>(+/-%) | DCR<br>(mΩ) Max. | Isat<br>(Typ.) | Idc<br>(Typ.) |
| LML0618AA-R68MR-02      | 0.68               | 100                 | 20                  | 12.7             | 17.0           | 9.0           |
| LML0618AA-1R0MR-02      | 1.0                | 100                 | 20                  | 17.0             | 14.0           | 7.0           |
| LML0618AA-1R5MR-02      | 1.5                | 100                 | 20                  | 26.0             | 12.0           | 6.5           |
| LML0618AA-2R2MR-02      | 2.2                | 100                 | 20                  | 35.0             | 8.0            | 5.0           |
| LML0618AA-3R3MR-02      | 3.3                | 100                 | 20                  | 60.0             | 8.0            | 3.5           |
| LML0618AA-4R7MR-02      | 4.7                | 100                 | 20                  | 70.0             | 5.0            | 3.5           |
| LML0618AA-6R8MR-02      | 6.8                | 100                 | 20                  | 110.0            | 4.5            | 2.8           |
| LML0618AA-100MR-02      | 10                 | 100                 | 20                  | 155.0            | 2.5            | 2.3           |

| <b>LML0624AA Series</b> |                    |                     |                     |                  |                |               |
|-------------------------|--------------------|---------------------|---------------------|------------------|----------------|---------------|
| P/N                     | Inductance<br>(uH) | Test Freq.<br>(KHz) | Tolerance<br>(+/-%) | DCR<br>(mΩ) Max. | Isat<br>(Typ.) | Idc<br>(Typ.) |
| LML0624AA-R22MR-02      | 0.22               | 100                 | 20                  | 3.0              | 34.0           | 21.0          |
| LML0624AA-R33MR-02      | 0.33               | 100                 | 20                  | 4.1              | 26.0           | 18.0          |
| LML0624AA-R47MR-02      | 0.47               | 100                 | 20                  | 5.1              | 22.0           | 15.0          |
| LML0624AA-R56MR-02      | 0.56               | 100                 | 20                  | 6.5              | 17.0           | 13.0          |
| LML0624AA-R68MR-02      | 0.68               | 100                 | 20                  | 7.0              | 16.0           | 12.0          |
| LML0624AA-1R0MR-02      | 1.0                | 100                 | 20                  | 13.5             | 16.0           | 9.0           |
| LML0624AA-1R5MR-02      | 1.5                | 100                 | 20                  | 20.0             | 15.0           | 9.0           |
| LML0624AA-2R2MR-02      | 2.2                | 100                 | 20                  | 28.0             | 12.0           | 7.0           |
| LML0624AA-3R3MR-02      | 3.3                | 100                 | 20                  | 39.0             | 10.0           | 5.5           |
| LML0624AA-4R7MR-02      | 4.7                | 100                 | 20                  | 50.0             | 7.5            | 5.0           |
| LML0624AA-6R8MR-02      | 6.8                | 100                 | 20                  | 65.0             | 6.0            | 4.0           |
| LML0624AA-100MR-02      | 10                 | 100                 | 20                  | 101.0            | 5.0            | 3.1           |



## Molding Power Inductors

| LML0630AA Series   |                    |                     |                     |                  |                |               |
|--------------------|--------------------|---------------------|---------------------|------------------|----------------|---------------|
| P/N                | Inductance<br>(uH) | Test Freq.<br>(KHz) | Tolerance<br>(+/-%) | DCR<br>(mΩ) Max. | Isat<br>(Typ.) | Idc<br>(Typ.) |
| LML0630AA-R22MR-02 | 0.22               | 100                 | 20                  | 3.0              | 42.0           | 24.0          |
| LML0630AA-R24MR-02 | 0.24               | 100                 | 20                  | 3.1              | 31.0           | 23.0          |
| LML0630AA-R33MR-02 | 0.33               | 100                 | 20                  | 3.5              | 30.0           | 21.0          |
| LML0630AA-R47MR-02 | 0.47               | 100                 | 20                  | 4.1              | 20.0           | 18.0          |
| LML0630AA-R56MR-02 | 0.56               | 100                 | 20                  | 4.5              | 18.0           | 16.5          |
| LML0630AA-R68MR-02 | 0.68               | 100                 | 20                  | 5.3              | 17.0           | 16.0          |
| LML0630AA-R82MR-02 | 0.82               | 100                 | 20                  | 6.0              | 17.0           | 14.0          |
| LML0630AA-1R0MR-02 | 1.0                | 100                 | 20                  | 7.4              | 15.0           | 12.0          |
| LML0630AA-1R5MR-02 | 1.5                | 100                 | 20                  | 12.1             | 14.0           | 10.0          |
| LML0630AA-2R2MR-02 | 2.2                | 100                 | 20                  | 15.0             | 10.0           | 8.0           |
| LML0630AA-3R3MR-02 | 3.3                | 100                 | 20                  | 22.0             | 9.5            | 6.5           |
| LML0630AA-4R7MR-02 | 4.7                | 100                 | 20                  | 33.0             | 6.5            | 5.5           |
| LML0630AA-6R8MR-02 | 6.8                | 100                 | 20                  | 50.0             | 6.0            | 4.5           |
| LML0630AA-8R2MR-02 | 8.2                | 100                 | 20                  | 60.0             | 6.0            | 4.2           |
| LML0630AA-100MR-02 | 10.                | 100                 | 20                  | 68.0             | 5.5            | 4.0           |
| LML0630AA-150MR-02 | 15.                | 100                 | 20                  | 115.0            | 4.5            | 3.0           |
| LML0630AA-220MR-02 | 22.                | 100                 | 20                  | 200.0            | 3.0            | 2.3           |
| LML0630AA-330MR-02 | 33.                | 100                 | 20                  | 310.0            | 3.0            | 2.0           |

### NOTE :

- ◎Testing frequency:100KHz/1V
- ◎All test Data is referenced to 20℃ ambient
- ◎Typical Heat Rating DC Current (Idc) would cause an approximately  $\Delta T$  of 40℃
- ◎Typical Saturation DC Current (Isat) would cause open load inductance to drop approximately 30%