

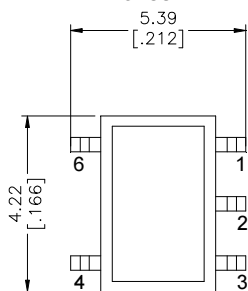
RF Balun Transformer

- 75Ω Characteristic Impedance
- 2 : 1 Flux Coupled Transformer
- Frequency : 5 to 300MHz
- RF power : 500mW
- DC current : 500mA
- Operating temperature range : -40℃ to +85℃
- Storage temperature range : -55℃ to +100℃

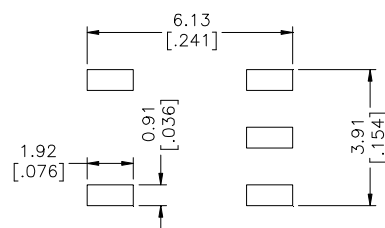
Electrical Specifications @25℃, Z0=75Ω, Pin=0dBm				
Parameter	Test Conditions	Units	Typ	Max
Insertion Loss(Pin1-Pin6)	5-50MHz	dB	0.40	0.60
	50-85MHz		0.50	0.70
	85-205MHz		0.80	1.50
	205-300MHz		1.30	2.20
Insertion Loss(Pin1-Pin4)	5-50MHz	dB	0.40	0.60
	50-85MHz		0.50	0.70
	85-205MHz		0.70	1.40
	205-300MHz		1.20	2.00
Amplitude Balance	5-50MHz	dB	0.02	0.20
	50-85MHz		0.04	0.30
	85-205MHz		0.04	0.50
	205-300MHz		0.10	0.70
Phase Balance	5-50MHz	Degrees	0.10	2.00
	50-85MHz		0.30	3.00
	85-205MHz		1.10	6.00
	205-300MHz		1.20	7.00
Input Return Loss(Pin 1)	5-45MHz	dB	25.00	-
	45-85MHz		19.00	-
	85-205MHz		13.00	-
	205-300MHz		9.00	-
Impedance Ratio	-	Ratio	2 : 1	-

Dimensions

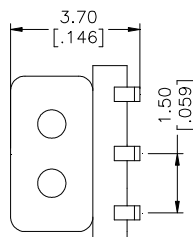
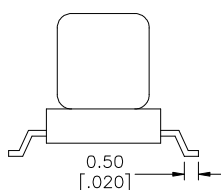
(Units: $\frac{\text{mm}}{\text{Inches}}$, Unless otherwise specified, all tolerances are ± 0.25 / ± 0.010)



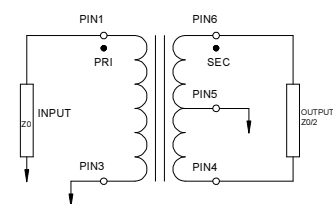
TOP VIEW



SUGGESTED PAD LAYOUT



Schematic



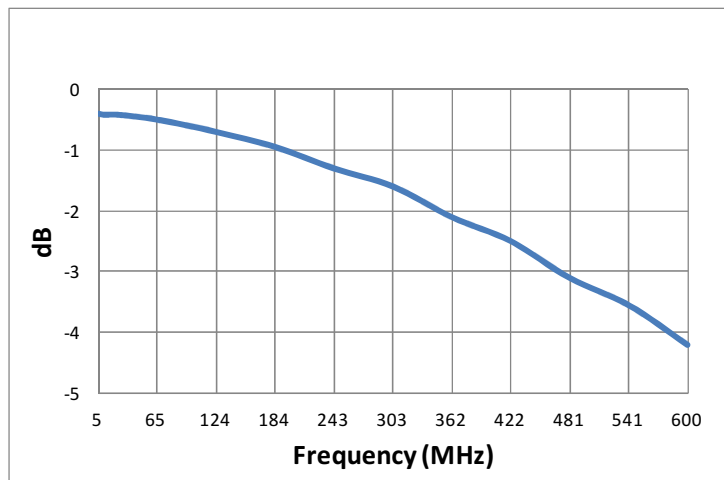
Pin configuration

Pin no.	Function
1	Primary Dot
3	Primary
4	Secondary
5	Secondary Centre Tap
6	Secondary Dot

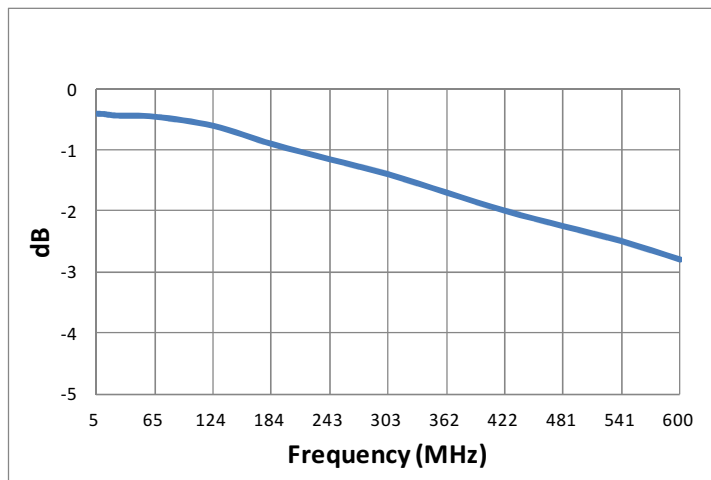
Package info

LRT1513-50R—Tape Reel

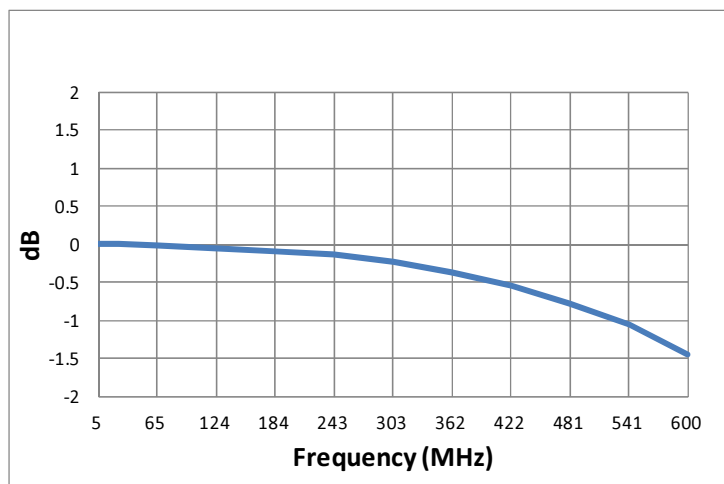
Insertion Loss (Pin1 to 6)



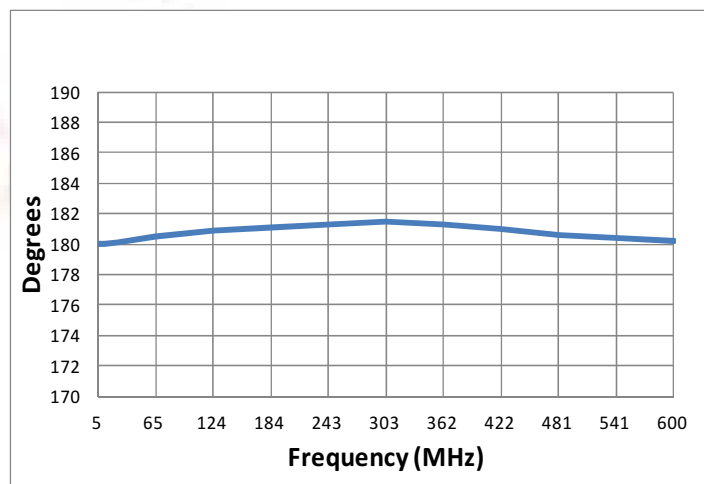
Insertion Loss (Pin1 to 4)



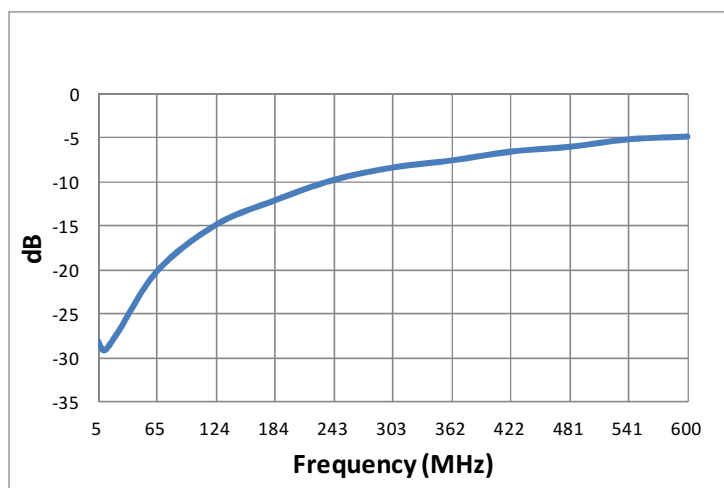
Amplitude Balance



Phase Balance



Input Return Loss (pin1)



Balanced Output Return Loss

