

Surface Mount RF Transformer

75Ω 50 to 1000 MHz

JTX-2-10T+ JTX-2-10T



CASE STYLE: BH292

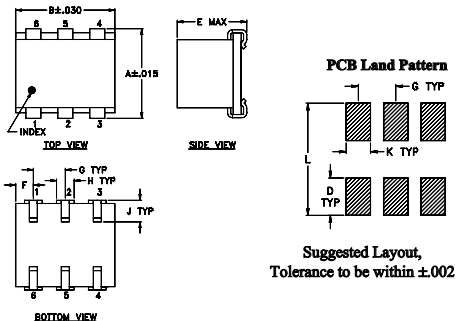
Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power	0.25W
DC Current	30mA
Permanent damage may occur if any of these limits are exceeded.	

Pin Connections

PRIMARY DOT	3
PRIMARY	1
SECONDARY DOT	6
SECONDARY	4
SECONDARY CT	5
NOT USED	2

Outline Drawing

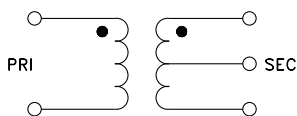


Outline Dimensions (inch/mm)

A	B	C	D	E	F	G
.280	.310	--	.100	.225	.055	.100
7.11	7.87	--	2.54	5.72	1.40	2.54
H	J	K	L	wt		
.047	.065	.065	.300	grams		
1.19	1.65	1.65	7.62	0.45		

Demo Board MCL P/N: TB-169

Config. A



Features

- excellent return loss, 26 dB typ. in 1 dB bandwidth
- excellent amplitude unbalance, 0.4 dB typ. and phase unbalance, 3 deg. typ. in 1 dB bandwidth
- excellent insertion loss flatness, ±0.25 dB

Applications

- impedance matching
- balanced amplifiers

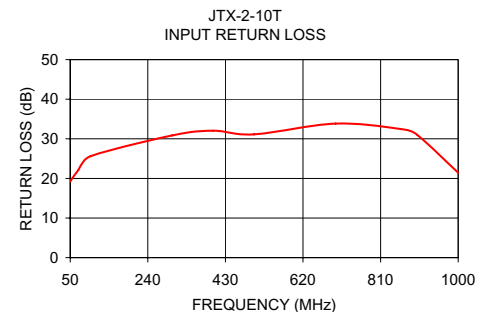
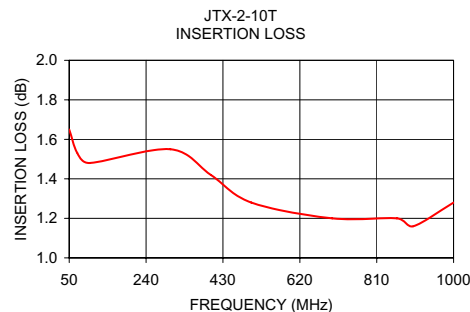
Transformer Electrical Specifications

Ω RATIO (Secondary/Primary)	FREQUENCY (MHz)	INSERTION LOSS*			PHASE UNBALANCE (Deg.) Typ.		AMPLITUDE UNBALANCE (dB) Typ.	
		3 dB MHz	2 dB MHz	1 dB MHz	1 dB bandwidth	2 dB bandwidth	1 dB bandwidth	2 dB bandwidth
2	50-1000	—	—	50-1000	3	—	0.4	—

* Insertion Loss is referenced to mid-band loss, 1.5 dB typ.

Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)	AMPLITUDE UNBALANCE (dB)	PHASE UNBALANCE (Deg.)
50.00	1.65	19.25	0.03	0.18
70.00	1.53	22.13	0.06	0.29
100.00	1.48	25.62	0.10	0.66
300.00	1.55	30.86	0.02	2.40
400.00	1.42	32.04	0.10	2.27
500.00	1.28	31.12	0.23	2.01
700.00	1.20	33.85	0.37	0.66
860.00	1.20	32.46	0.36	0.87
900.00	1.16	30.98	0.34	1.40
1000.00	1.28	21.44	0.19	2.47



Notes

- Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
- Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
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