

Surface Mount RF Transformer

75Ω 50 to 1000 MHz

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



CASE STYLE: BH292

Maximum Ratings

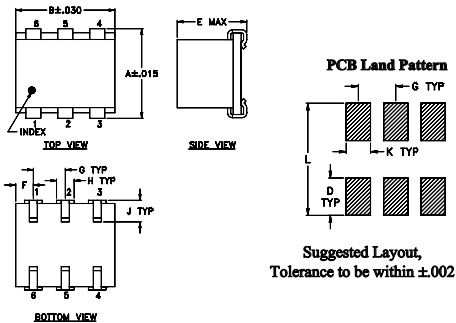
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power	0.25W
DC Current	30mA

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

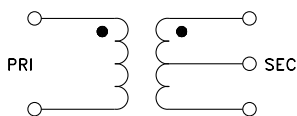


Outline Dimensions (inch/mm)

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

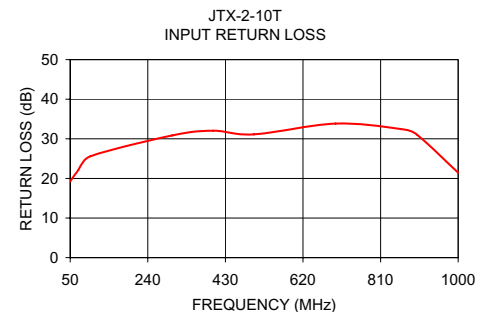
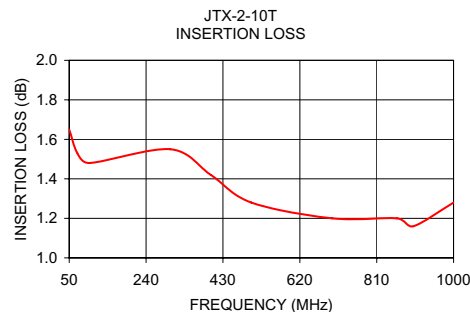
Ω RATIO (Secondary/Primary)	FREQUENCY (MHz)	INSERTION LOSS*			PHASE UNBALANCE (Deg.) Typ.		AMPLITUDE UNBALANCE (dB) Typ.	
		3 dB MHz	2 dB MHz	1 dB MHz	1 dB bandwidth	2 dB bandwidth	1 dB bandwidth	2 dB bandwidth
2	50-1000	—	—	50-1000	3	—	0.4	—

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

+RoHS Compliant
The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

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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