

# Surface Mount RF Transformer

75Ω 50 to 1000 MHz

## JTX-2-10T+



Generic photo used for illustration purposes only

CASE STYLE: BH292

**+RoHS Compliant**

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

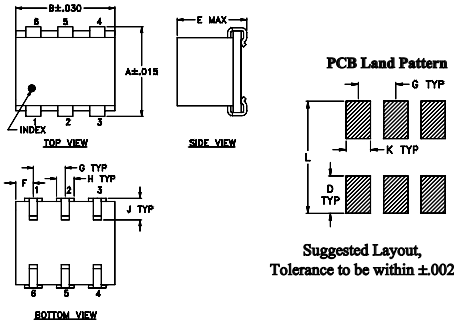
### Maximum Ratings

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

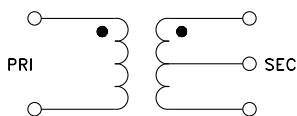


### Outline Dimensions (inch/mm)

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

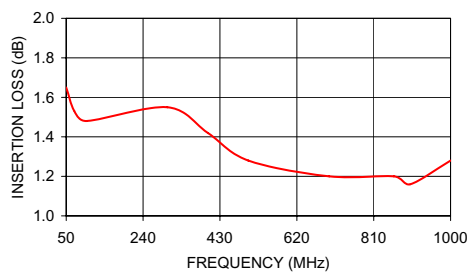
Ω RATIO (Secondary/Primary)	FREQUENCY (MHz)	INSERTION LOSS*			PHASE UNBALANCE (Deg.) Typ.		AMPLITUDE UNBALANCE (dB) Typ.	
		3 dB MHz	2 dB MHz	1 dB MHz	1 dB bandwidth	2 dB bandwidth	1 dB bandwidth	2 dB bandwidth
2	50-1000	—	—	50-1000	3	—	0.4	—

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

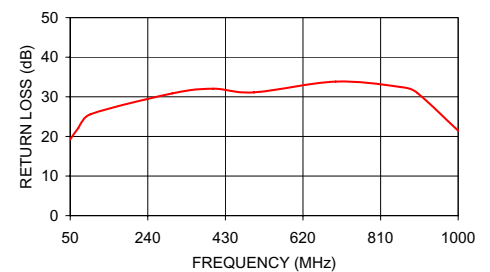
### Typical Performance Data

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

JTX-2-10T  
INSERTION LOSS



JTX-2-10T  
INPUT RETURN LOSS



### 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.
- The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at [www.minicircuits.com/MCLStore/terms.jsp](http://www.minicircuits.com/MCLStore/terms.jsp)

