

RF Transformer

0.04 to 80 MHz

JT-1975+
JT-1975



Maximum Ratings

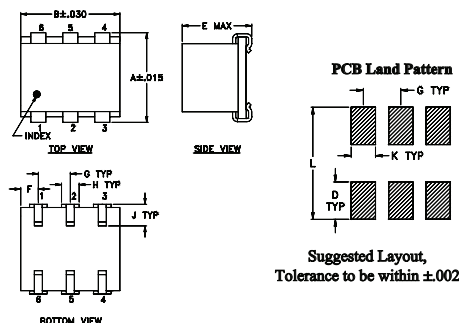
Operating Temperature	-20°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power	0.25W
DC Current	30mA

Permanent damage may occur if any of these limits are exceeded

Pin Connections

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

Outline Drawing

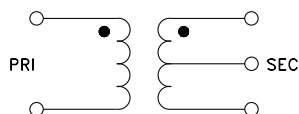


Outline Dimensions (inch)

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

Config. A



Features

- excellent return loss, 20 dB typ. in 1 dB bandwidth
- excellent amplitude unbalance, 0.05 dB typ. and phase unbalance, 1.0 deg. typ. in 1 dB bandwidth

Applications

- impedance matching
- balanced amplifiers

Transformer Electrical Specifications

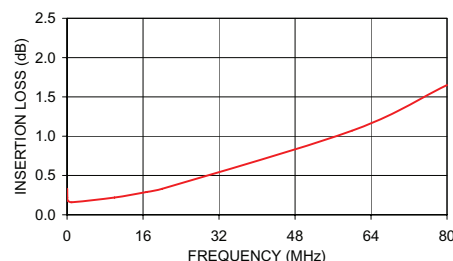
Ω RATIO (Secondary/Primary)	FREQUENCY (MHz)	INSERTION LOSS*			PHASE UNBALANCE (Deg.) Typ.		AMPLITUDE UNBALANCE (dB) Typ.	
		3 dB MHz	2 dB MHz	1 dB MHz	1 dB bandwidth	2 dB bandwidth	1 dB bandwidth	2 dB bandwidth
2.5	0.04-80	0.04-80	0.05-60	0.1-30	1	2	0.05	0.2

* Insertion Loss is referenced to mid-band loss, 0.2 dB typ.

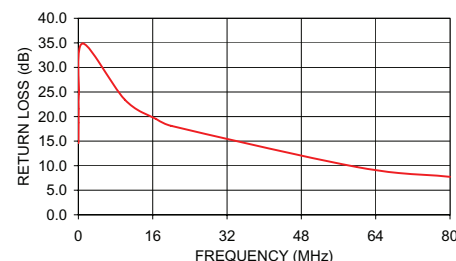
Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)	AMPLITUDE UNBALANCE (dB)	PHASE UNBALANCE (Deg.)
0.03	0.33	14.60	0.01	0.13
0.05	0.22	18.75	0.01	0.09
0.07	0.19	21.58	0.01	0.06
0.10	0.18	24.55	0.01	0.05
1.00	0.16	34.88	0.01	0.08
10.00	0.22	23.43	0.00	0.42
16.75	0.29	19.49	0.01	0.66
20.00	0.33	18.11	0.01	0.78
60.00	1.07	9.71	0.14	2.45
80.00	1.65	7.72	0.26	3.54

JT-1975
INSERTION LOSS



JT-1975
INPUT RETURN LOSS



Notes

Notes:

- A.** 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.
- B.** Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
- C.** 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/MCISStoreTerms.aspx](http://www.minicircuits.com/MCISStoreTerms.aspx).

REV. B
M98898
JT-1975
EDR-1975
WZ/TD/CP/AM
070718