

# Surface Mount RF Transformer

50Ω

0.5 to 400 MHz

TTCM4-4X+



CASE STYLE: DB1627

## Maximum Ratings

Operating Temperature	-20°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power	250mW
DC Current	30mA

Permanent damage may occur if any of these limits are exceeded.

## Pin Connections

PRIMARY DOT	4
PRIMARY	6
PRIMARY CT	5**
SECONDARY DOT	3
SECONDARY	1
SECONDARY CT	2

\*\* Used only in balanced to balanced configuration.

## Features

- wideband, 0.5 to 400 MHz
- excellent amplitude (0.1 dB typ.) and phase unbalance (1° typ.)
- plastic base with solder plated leads
- aqueous washable

## Applications

- impedance matching

### +RoHS Compliant

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

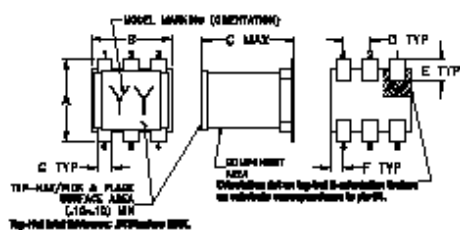
Available Tape and Reel at no extra cost	
Reel Size	Devices/Reel
7"	20, 50, 100, 200, 500
13"	1000, 2000

## Transformer Electrical Specifications

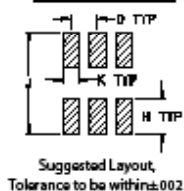
Ω RATIO (Secondary/Primary)	FREQUENCY (MHz)	INSERTION LOSS*			PHASE UNBALANCE (Deg.) Typ.		AMPLITUDE UNBALANCE (dB) Typ.	
		3 dB MHz	2 dB MHz	1 dB MHz	1 dB bandwidth	2 dB bandwidth	1 dB bandwidth	2 dB bandwidth
4	0.5-400	0.5-400	1.3-160	5-100	1	1	0.1	0.1

\* Insertion Loss is referenced to mid-band loss, 0.65 dB typ.

## Outline Drawing



### PCB Land Pattern



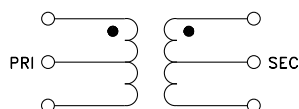
## Outline Dimensions (inches/mm)

A	B	C	D	E	F
.160	.150	.160	.050	.040	.025
4.06	3.81	4.06	1.27	1.02	0.64
G	H	J	K		wt
.028	.065	.190	.030		grams
0.71	1.65	4.83	0.76		0.15

## Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)	AMPLITUDE UNBALANCE (dB)	PHASE UNBALANCE (Deg.)
0.50	1.27	15.05	0.02	0.21
1.00	1.02	16.86	0.02	0.16
1.50	0.90	17.24	0.02	0.11
2.00	0.82	17.30	0.03	0.04
16.00	0.64	16.47	0.04	0.12
100.00	0.82	16.33	0.01	0.43
160.00	0.82	16.19	0.10	0.50
200.00	1.05	14.91	0.16	0.34
300.00	1.46	12.61	0.38	0.93
400.00	1.90	10.01	0.61	4.56

## Config. B



## 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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[www.minicircuits.com](http://www.minicircuits.com) P.O. Box 350166, Brooklyn, NY 11235-0003 (718) 934-4500 [sales@minicircuits.com](mailto:sales@minicircuits.com)

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