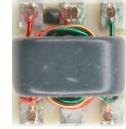


# Surface Mount RF Transformer

50Ω

2 to 500 MHz

## TCM3-1T+ TCM3-1T



CASE STYLE: DB714  
PRICE: \$1.09 ea. QTY (100)

**+ RoHS compliant in accordance with EU Directive (2002/95/EC)**

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

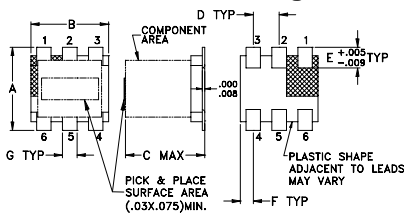
### Maximum Ratings

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

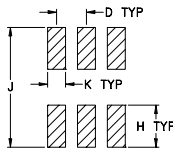
### Pin Connections

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

### Outline Drawing



### PCB Land Pattern



Suggested Layout,  
Tolerance to be within ±.002

### Outline Dimensions (inch/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

### Features

- excellent amplitude unbalance, 0.1 dB typ.
- excellent phase unbalance, 2 deg. typ. in 1 dB bandwidth
- plastic base with solder plated leads
- aqueous washable

### Applications

- impedance matching

### Transformer Electrical Specifications

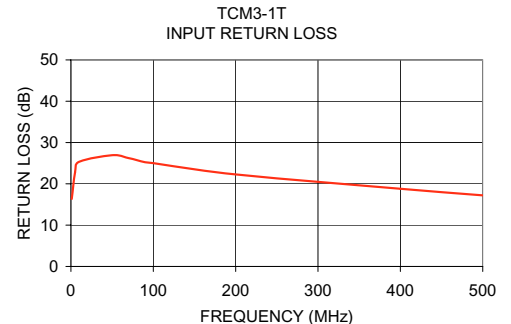
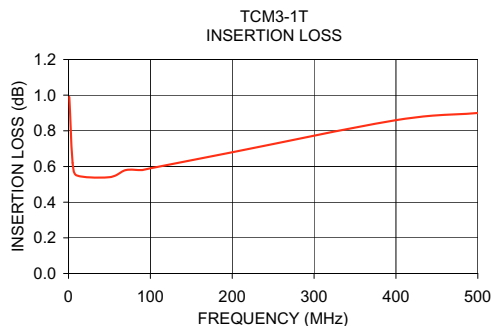
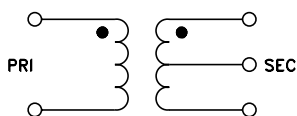
Ω RATIO (Secondary/Primary)	FREQUENCY (MHz)	INSERTION LOSS*	
		2 dB MHz	1 dB MHz
3	2-500	2-500	5-300

\* Insertion Loss is referenced to mid-band loss, 0.5 dB typ.

### Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)
1.00	0.99	16.34
5.00	0.62	22.80
10.00	0.55	25.33
50.00	0.54	26.93
70.00	0.58	26.24
90.00	0.58	25.23
100.00	0.59	25.02
200.00	0.68	22.28
400.00	0.86	18.81
500.00	0.90	17.21

### Config. A



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RF/IF MICROWAVE COMPONENTS

REV. C  
M114760  
TCM3-1T  
ED-8233/1  
IG/TD/CP/AM  
080218