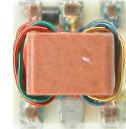


# Surface Mount RF Transformer

50Ω 500 to 2500 MHz

## TCM4-25+ TCM4-25



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.*

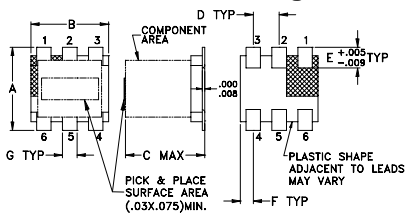
### Maximum Ratings

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

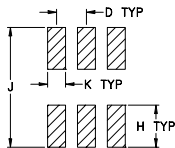
### Pin Connections

PRIMARY DOT	6
PRIMARY	4
SECONDARY DOT	3
SECONDARY	1
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

- wide bandwidth, 500 to 2500 MHz
- balanced transmission line with secondary center tap
- good return loss
- plastic base with solder plated leads
- aqueous washable

### Applications

- PCS
- cellular

### Transformer Electrical Specifications

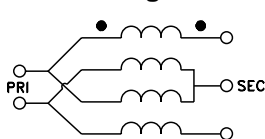
Ω RATIO (Secondary/Primary)	FREQUENCY (MHz)	INSERTION LOSS*		
		3 dB MHz	2 dB MHz	1 dB MHz
4	500-2500	500-2500	700-1500	750-1200

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

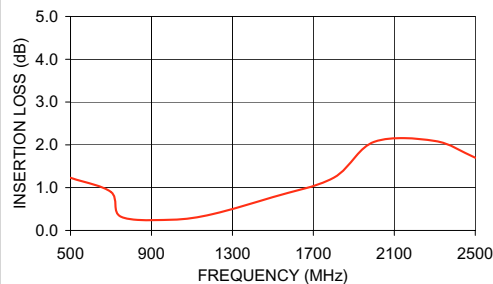
### Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)
400.00	1.66	6.09
500.00	1.07	8.37
600.00	0.74	10.92
700.00	0.54	13.81
800.00	0.42	17.29
900.00	0.38	21.02
1000.00	0.37	22.67
1100.00	0.40	20.79
1200.00	0.43	18.40
1300.00	0.48	16.41
1400.00	0.53	14.94
1500.00	0.59	13.79
1600.00	0.64	12.90
1800.00	0.74	11.65
2000.00	0.84	10.75
2200.00	0.96	10.03
2400.00	1.08	9.35
2500.00	1.14	8.96
2800.00	1.38	7.82
3000.00	1.59	7.06

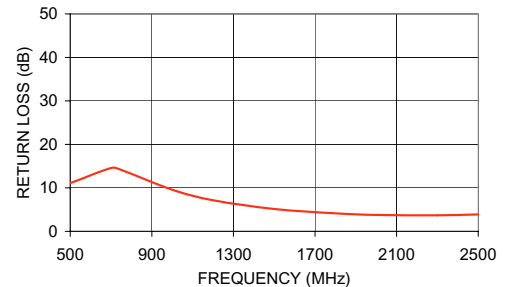
### Config. H



TCM4-25  
INSERTION LOSS



TCM4-25  
INPUT RETURN LOSS



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RF/IF MICROWAVE COMPONENTS

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