

# Surface Mount RF Transformer

50Ω 0.5 to 800 MHz

## T3-1-KK81+



Generic photo used for illustration purposes only

CASE STYLE: KK81

**+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
13"	900

### 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	6
PRIMARY	3
SECONDARY DOT	1
SECONDARY	3
NOT USED	2,4,5

### Features

- wideband, 0.5 to 800 MHz
- good return loss
- also available with plug-in (X65) & flat-pack (W38) leads

### Applications

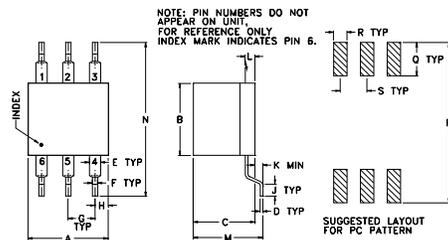
- impedance matching
- VHF/UHF

### Transformer Electrical Specifications

Ω RATIO (Secondary/Primary)	FREQUENCY (MHz)	INSERTION LOSS*		
		3 dB MHz	2 dB MHz	1 dB MHz
3	0.5-800	0.5-800	2-400	—

\* Insertion Loss is referenced to mid-band loss, 1.25 dB typ.

### Outline Drawing



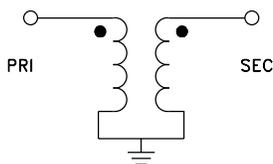
### Outline Dimensions (inch)

A	B	C	D	E	F	G	H	J
.30	.27	.23	.010	.042	.020	.100	.05	.05
7.62	6.86	5.84	0.25	1.07	0.51	2.54	1.27	1.27
K	L	M	N	P	Q	R	S	wt
.020	.036	.26	.575	.600	.125	.050	.100	grams
0.51	0.91	6.60	14.61	15.24	3.18	1.27	2.54	0.50

### Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)
0.500	2.940	7.210
1.940	1.730	10.660
9.923	1.180	12.300
50.297	1.220	11.120
99.524	1.230	8.970
200.594	1.340	5.440
348.840	1.490	2.960
523.423	1.950	1.940
677.637	2.840	1.720
800.000	3.700	1.830

### Config. D



### 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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