

# Surface Mount RF Transformer

50Ω

0.1 to 45 MHz

TT16-1-KK81+

## Maximum Ratings

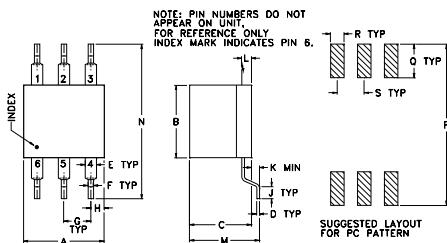
Operating Temperature	-20°C to 85°C
Storage Temperature	55°C to 100°C
RF Power	250mW
DC Current	30mA

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

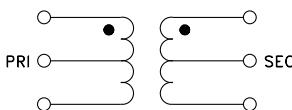
## Outline Drawing



## Outline Dimensions (inch mm)

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
.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

## Config. B



## Features

- good return loss
- also available with plug-in (X65) and flat-pack (W38) leads

## Applications

- HF
- radio communication
- impedance matching



CASE STYLE: KK81  
PRICE: \$9.95 ea. QTY (1-9)

### +RoHS Compliant

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

## Transformer Electrical Specifications

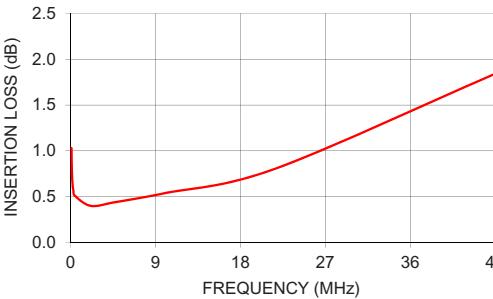
Ω RATIO (Secondary/Primary)	FREQUENCY (MHz)	INSERTION LOSS*		
		3 dB MHz	2 dB MHz	1 dB MHz
16	0.1-45	0.1-45	0.14-35	1-20

\* Insertion Loss is referenced to mid-band loss, 0.4 dB typ.

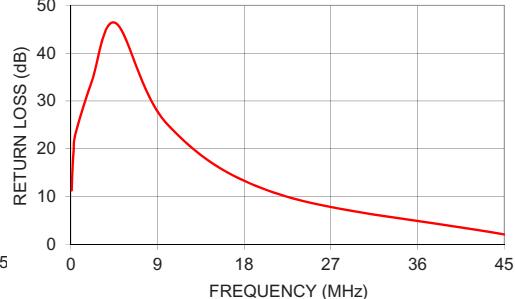
## Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)
0.10	1.03	11.30
0.15	0.76	14.27
0.22	0.63	17.22
0.30	0.57	19.65
0.47	0.51	23.01
2.17	0.40	33.97
4.66	0.44	46.27
10.03	0.54	25.12
21.54	0.80	10.53
45.00	1.84	2.08

TT16-1-KK81+  
INSERTION LOSS



TT16-1-KK81+  
INPUT RETURN LOSS



### 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-Circuits' applicable established test performance criteria and measurement instructions.
- 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/MCLStore/terms.jsp](http://www.minicircuits.com/MCLStore/terms.jsp)

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