

# Surface Mount RF Transformer

50Ω 0.1 to 300 MHz

## TT4-1A-KK81+ TT4-1A-KK81



### Maximum Ratings

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

### Pin Connections

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

### Features

- wideband, 0.1 to 300 MHz
- good return loss
- also available with plug-in (X65) and flat-pack (W38) leads

### Applications

- VHF/UHF
- impedance matching
- receivers/transmitters

CASE STYLE: KK81  
PRICE: \$6.95 ea. QTY (1-9)

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

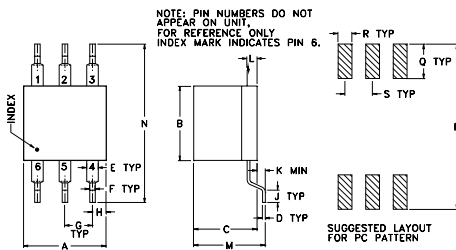
The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

### Transformer Electrical Specifications

Ω RATIO (Secondary/Primary)	FREQUENCY (MHz)	INSERTION LOSS*		
		3 dB MHz	2 dB MHz	1 dB MHz
4	0.1-300	0.1-300	0.2-250	0.3-180

\* Insertion Loss is referenced to mid-band loss, 0.3 dB typ.

### Outline Drawing



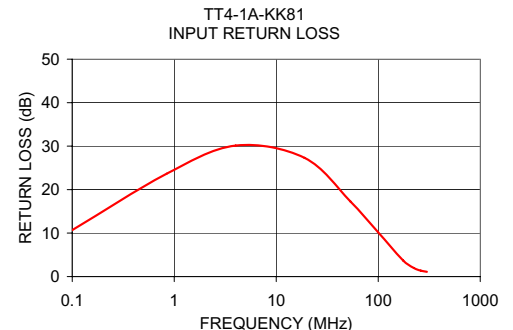
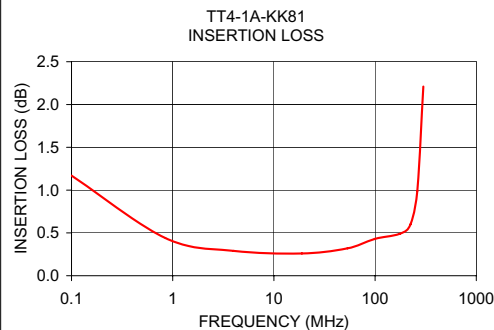
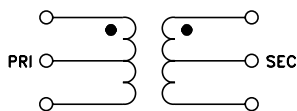
### Outline Dimensions (inch)

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)
0.10	1.17	10.70
0.85	0.44	23.68
4.00	0.29	30.12
18.93	0.26	27.31
53.35	0.32	17.29
99.34	0.43	10.23
175.64	0.49	3.69
223.68	0.60	1.96
261.29	0.99	1.36
300.00	2.21	1.09

### Config. B



**Mini-Circuits®**  
ISO 9001 ISO 14001 CERTIFIED

ALL NEW  
minicircuits.com

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 For detailed performance specs & shopping online see Mini-Circuits web site



The Design Engineers Search Engine Provides ACTUAL Data Instantly From MINI-CIRCUITS At: [www.minicircuits.com](http://www.minicircuits.com)

RF/IF MICROWAVE COMPONENTS

REV. A  
M98898  
TT4-1A-KK81  
IG/TD/CP  
070718