Surface Mount

RF Transformer

TT16-1-KK81+

50Ω   0.1 to 45 MHz

CASE STYLE: 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

Features
• good return loss
• also available with plug-in (X65) and flat-pack (W38) leads
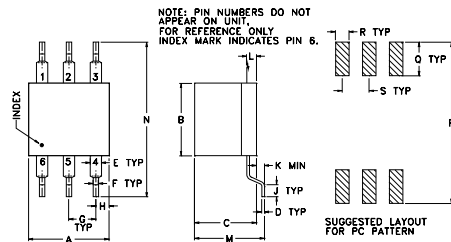
Applications
• HF
• radio communication
• impedance matching

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

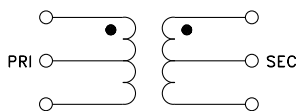* Insertion Loss is referenced to mid-band loss, 0.4 dB typ.

Outline Drawing

NOTE: PIN NUMBERS DO NOT APPEAR ON UNIT. FOR REFERENCE ONLY INDEX MARK INDICATES PIN 6.

SUGGESTED LAYOUT FOR PC PATTERN

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

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	1.03	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

Config. B

PRI   SEC

TT16-1-KK81+ INSERTION LOSS

TT16-1-KK81+ INPUT RETURN LOSS

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