

# Surface Mount RF Transformer

50Ω 0.07 to 200 MHz

## Maximum Ratings

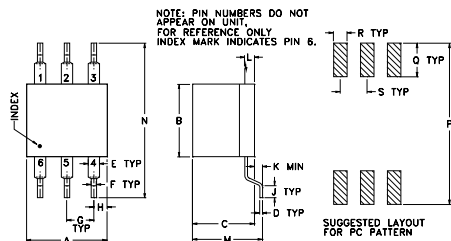
Operating Temperature	-20°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power	0.25W
DC Current	30mA

Permanent damage may occur if any of these limits are exceeded.

## Pin Connections

PRIMARY DOT	X1,Y5,Z3
PRIMARY	X2,Y6,Z4

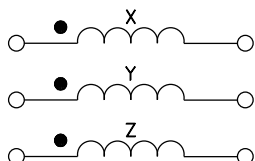
## Outline Drawing



## 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

## Config. F



## 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.
- 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)

## Features

- wideband, 0.07 to 200 MHz
- single ended to balanced with impedance ratio selection
- also available with plug-in (X65) & flat pack (W38) leads

## Applications

- HF/VHF
- test equipment

# T2-613-1-KK81+ T2-613-1-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

## Transformer Electrical Specifications

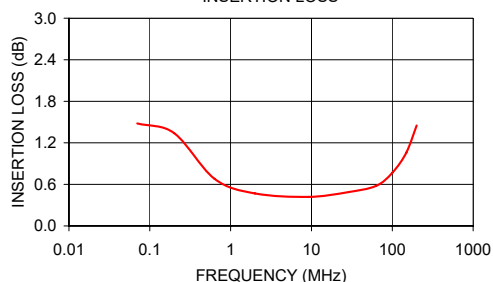
Ω RATIO	FREQUENCY (MHz)	INSERTION LOSS*		
		3 dB MHz	2 dB MHz	1 dB MHz
1:1:2	0.07-200	0.07-200	0.1-100	0.5-50

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

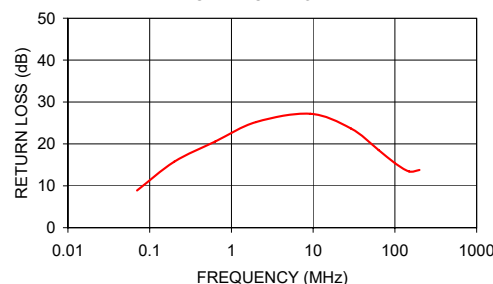
## Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)
0.07	1.48	8.88
0.20	1.34	15.76
0.63	0.68	20.56
2.00	0.47	25.22
9.20	0.42	27.19
29.09	0.49	23.67
63.25	0.58	18.52
100.24	0.77	15.39
149.06	1.06	13.44
200.00	1.45	13.77

T2-613-1-KK81  
INSERTION LOSS



T2-613-1-KK81  
INPUT RETURN LOSS



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