

RF Transformer

T1-ED7122/1

Impedance Ratio : 1

Important Note

This model has been designed, built and tested in our engineering department. Performance data represents model capability. At present it is a non-catalog model. On request, we can supply a final specification sheet, part number and price/delivery information.



Please click "Back", and then click "Contact Us" for Applications support.

CASE STYLE : KK81

ELECTRICAL SPECIFICATIONS 75Ω @ +25°C				
Parameter	Min.	Typ.	Max.	Units
Frequency	0.32		567	MHz
Insertion Loss *	3 dB Bandwidth	0.32 - 567		MHz
	2 dB Bandwidth	1-250		MHz
	1 dB Bandwidth	5-100		MHz

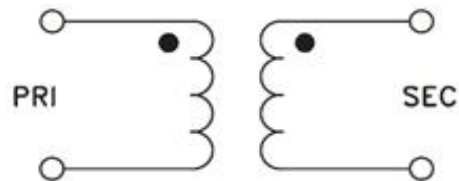
Note:

* Insertion Loss is referenced to mid-band loss, 0.7dB typ.

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

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

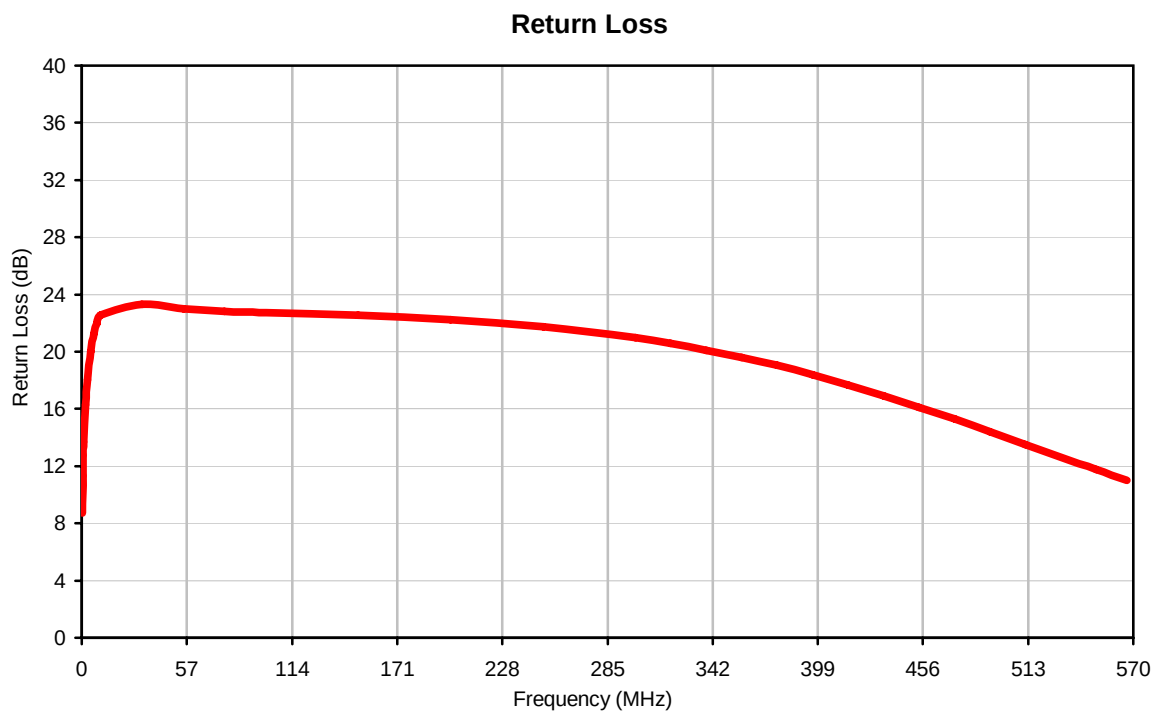
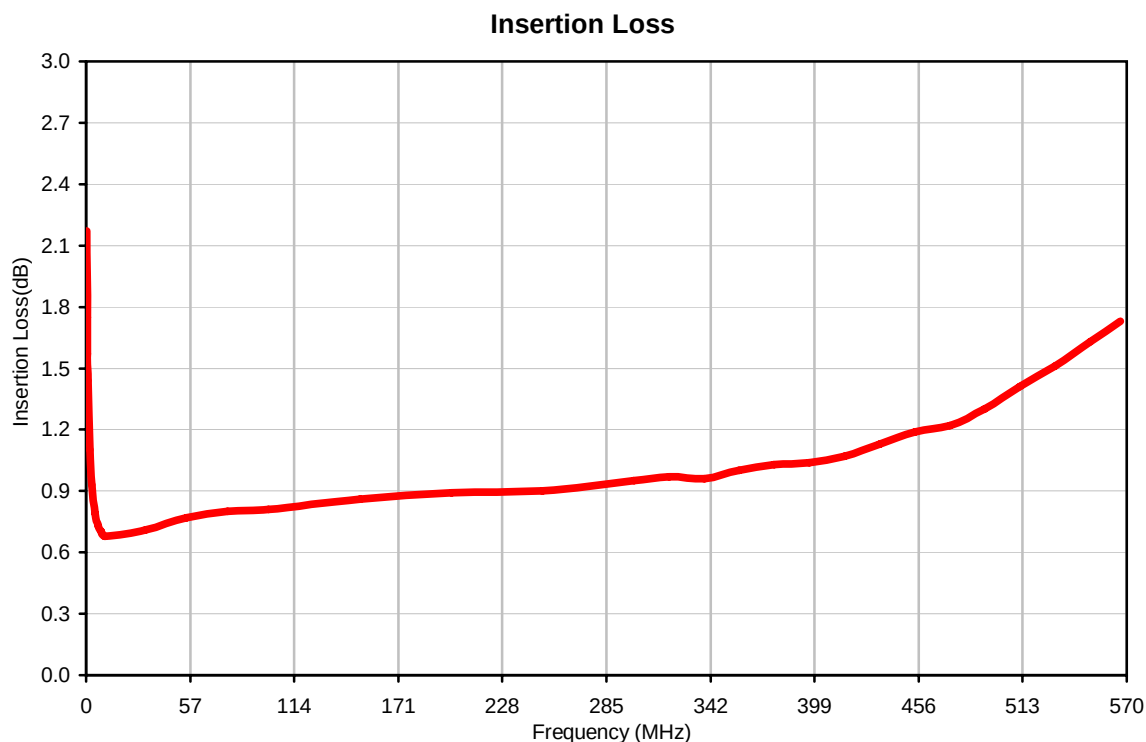
Configuration : C



Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	RETURN LOSS (dB)
0.33	2.17	8.72
0.55	1.75	11.31
0.78	1.57	12.74
1.00	1.44	13.70
2.00	1.10	16.28
3.00	0.93	18.01
4.75	0.79	20.02
6.50	0.73	21.25
8.25	0.70	22.03
10.00	0.68	22.55
32.50	0.71	23.33
55.00	0.77	22.99
77.50	0.80	22.82
100.00	0.81	22.74
150.00	0.86	22.55
200.00	0.89	22.23
250.00	0.90	21.73
300.00	0.95	20.98
319.23	0.97	20.56
338.46	0.96	20.09
357.69	1.00	19.61
376.92	1.03	19.05
396.15	1.04	18.41
415.39	1.07	17.68
434.62	1.13	16.90
453.85	1.19	16.11
473.08	1.22	15.29
492.31	1.30	14.42
511.54	1.41	13.53
530.77	1.51	12.63
550.00	1.63	11.75
566.67	1.73	11.00

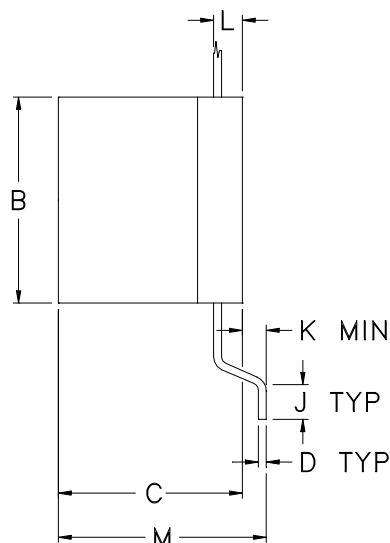
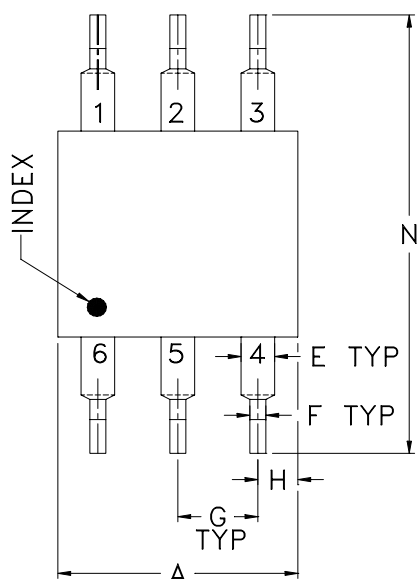
Typical Performance Curves



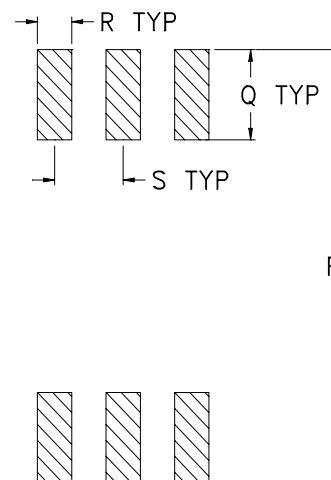
Outline Dimensions

KK81
KK265

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



PCB Land Pattern



Suggested Layout,
Tolerance to be within $\pm .002$

CASE #	A	B	C	D	E	F	G	H	J	K	L	M	N	P
KK81	.30 (7.62)	.27 (6.86)	.23 (5.84)	.010 (0.25)	0.42 (1.07)	.020 (0.51)	.100 (2.54)	.05 (1.27)	.05 (1.27)	.020 (0.51)	.036 (0.91)	.26 (6.60)	.575 (14.61)	.600 (15.24)
KK265	.30 (7.62)	.27 (6.86)	.22 (5.84)	.010 (0.25)	.020 (0.50)	.020 (0.51)	.100 (2.54)	.05 (1.27)	.05 (1.27)	0.1 (2.54)	.032 (0.81)	.23 (5.84)	.450 (10.62)	.475 (12.07)

CASE #	Q	R	S	WT. GRAM
KK81	.125 (3.18)	.050 (1.27)	.100 (2.54)	.50
KK265	.125 (3.18)	.050 (1.27)	.100 (2.54)	.65

Dimensions are in inches (mm). Tolerances: 2 Pl. $\pm .03$; 3 Pl. $\pm .015$

Notes:

- Case material: Plastic.
- Termination finish:
For RoHS Case Styles: Tin plate over Nickel plate.
For RoHS-5 Case Styles: Tin-Lead plate.
- Special Tolerances: Termination width $\pm .005$ inch, termination thickness $\pm .003$ inch.



INTERNET <http://www.minicircuits.com>

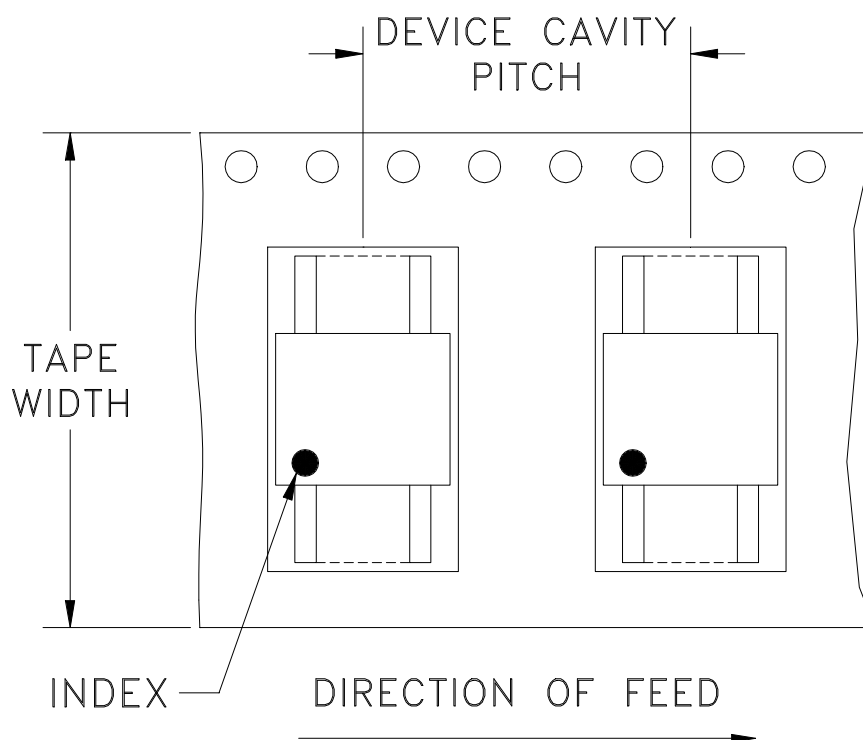
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DEVICE ORIENTATION IN T&R



Tape Width, mm	Device Cavity Pitch, mm	Reel Size, inches	Devices per Reel
24	12	13	900

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All Mini-Circuits products are manufactured under exacting quality assurance and control standards, and are capable of meeting published specifications after being subjected to any or all of the following physical and environmental test.

Specification	Test/Inspection Condition	Reference/Spec
Operating Temperature	-20° to 85°C Ambient Environment	Individual Model Data Sheet
Storage Temperature	-55° to 100° C Ambient Environment	Individual Model Data Sheet
Thermal Shock	-55° to 100°C, 100 cycles	MIL-STD-202, Method 107, Condition A-3, except +100°C
Solder Reflow Heat	Sn-Pb Eutetic Process: 225°C peak Pb-Free Process 245° - 250°C peak	J-STD-020, Table 4-1, 4-2 and 5-2, Figure 5-1
Solderability	10X Magnification	J-STD-002, Para 4.2.5, Test S, 95% Coverage
Vibration (High Frequency)	20g peak, 10-2000 Hz, 12 times in each of three perpendicular directions (total 36)	MIL-STD-202, Method 204, Condition D
Mechanical Shock	50g, 11 ms, 1/2-sine, 18 shocks: 3 each direction, each of 3 axes	MIL-STD-202, Method 213, Condition A
Lead Integrity	2 Pound Pull, perpendicular to edge of unit	MIL-STD-202, Method 211, Condition A
Marking Resistance to Solvents	Isopropyl alcohol + mineral spirits at 25°C; terpene defluxer at 25°C; distilled water + proylene glycol monomethyl ether + monoethanolamine at 63°C to 70°C	MIL-STD-202, Method 215