

50Ω

2 to 1100 MHz

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.

PRIMARY DOT	6
PRIMARY	3
SECONDARY DOT	1
SECONDARY	3

Figure 1: PCB Land Pattern. The diagram illustrates the dimensions and layout for a PCB land pattern. Key dimensions include A ± .015 / .000, B, C MAX, D TYP, and E TYP. The layout shows six mounting pads (1-6) and a central area for model marking and pick & place surface area. The bottom view shows the underside of the pads with dimensions D TYP and E TYP, and labels F TYP and SEE NOTE 3.

Note:

1. Case Material Plastic
2. Termination Finish: Tin plate over Nickel plate.
3. Lead #1 identifier shall be located in the cross-hatched area shown, on bottom view. Identifier may be either a molded or marked feature.
4. Top-Hat total thickness: 0.13 inches max.

A	B	C	D	E	F
.150	.150	.160	.050	.040	.025
3.81	3.81	4.06	1.27	1.02	0.64
G	H	J	K	wt	
.028	.065	.190	.030	grams	
0.71	1.65	4.83	0.76	0.15	

A schematic diagram of a transformer. The primary winding (PRI) is on the left, connected to an input terminal. The secondary winding (SEC) is on the right, connected to an output terminal. The secondary winding is grounded at its bottom end, indicated by a ground symbol.

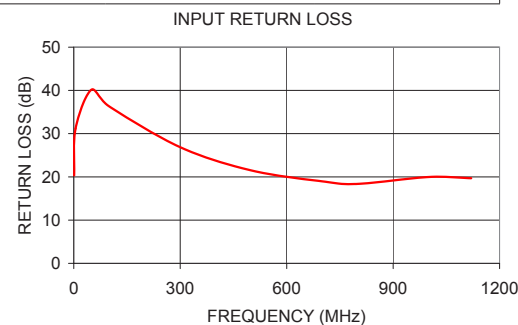
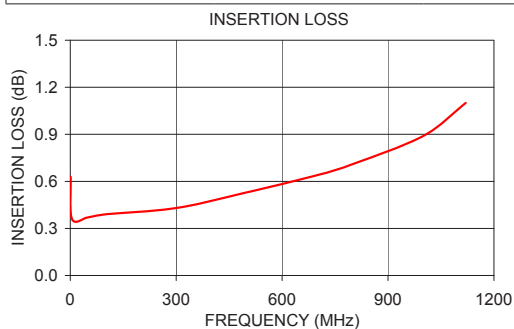
- wideband 2-1100 MHz
- good return loss
- terminations, solder plated with nickel barrier for solderability and excellent leach resistance
- step-down autotransformer
- plastic base with leads
- aqueous washable

- cellular

Ω RATIO (Primary/Secondary)	FREQUENCY (MHz)	INSERTION LOSS*		
		3 dB MHz	2 dB MHz	1 dB MHz
50/12.5	2-1100	—	2-1100	5-700

* Insertion Loss is referenced to mid-band loss, 0.4 dB typ.
Stepdown, 50 ohm primary, 5.2 pF across secondary

Typical Performance Data			
	FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)
	1.00	0.63	20.35
	5.00	0.36	31.19
	50.00	0.37	40.18
	100.00	0.39	36.30
	300.00	0.43	26.86
	500.00	0.53	21.49
	700.00	0.64	18.96
	800.00	0.71	18.37
	1000.00	0.89	19.97
	1120.00	1.10	19.69



Notes

- Notes:**
- A. 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.
- B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
- C. 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/MCIS/Store/terms.iso