



FEATURES

- Good return loss, 15 dB typ. in 1 dB typ. in dB bandwidth
- Plastic base with leads
- Aqueous washable



Generic photo used for illustration purposes only

CASE STYLE: AT224-1

+RoHS Compliant

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

APPLICATIONS

- CATV

ELECTRICAL SPECIFICATIONS AT 25°C

Parameter	Frequency (MHz)	Min.	Typ.	Max.	Unit
Impedance Ratio (Secondary/Primary)			16		Ohm
Frequency Range		20		300	MHz
Insertion Loss*	20-300		3.0		dB
	30-200		2.0		
	50-150		1.0		
Phase Unbalance	50-150		4		Deg.
	30-200		5		
Amplitude Unbalance	50-150		0.3		dB
	30-200		0.5		

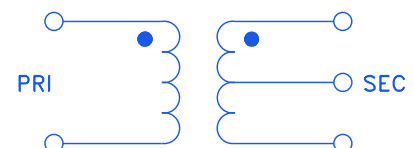
* Insertion Loss is referenced to mid-band loss, 1 dB typ.

MAXIMUM RATINGS

Parameter	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.

CONFIG. A





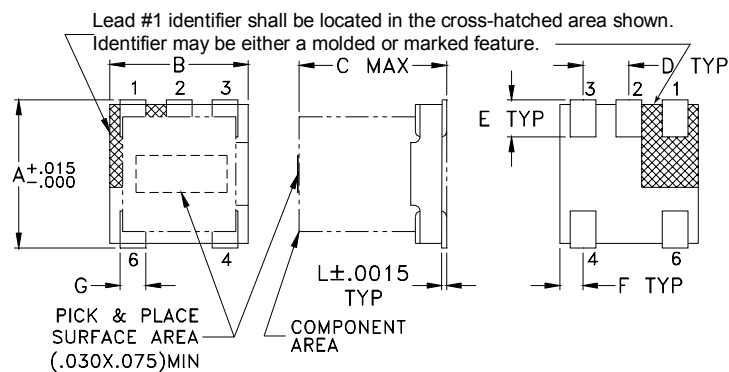
PIN CONNECTIONS

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

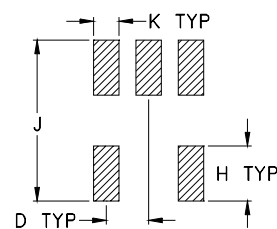
PRODUCT MARKING: N/A

DEMO BOARD MCL P/N: TB-41

OUTLINE DRAWING



PCB Land Pattern

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

OUTLINE DIMENSIONS (Inch mm)

A	B	C	D	E	F	G	H	J	K	L
.150	.150	.160	.050	.040	.025	.028	.065	.190	.030	.007
3.81	3.81	4.06	1.27	1.02	0.64	0.71	1.65	4.83	0.76	0.18

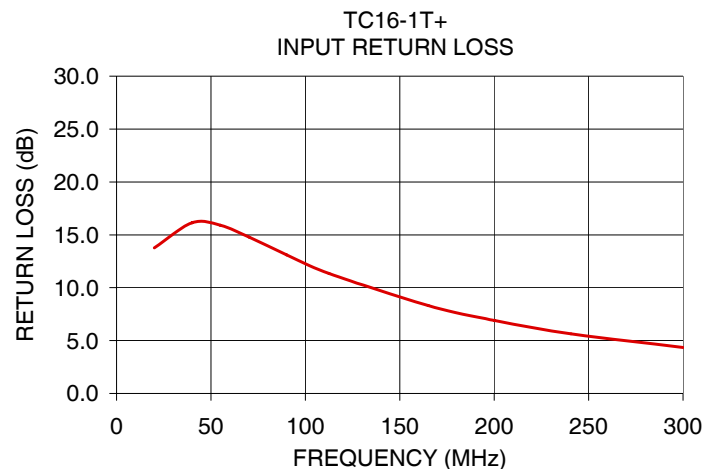
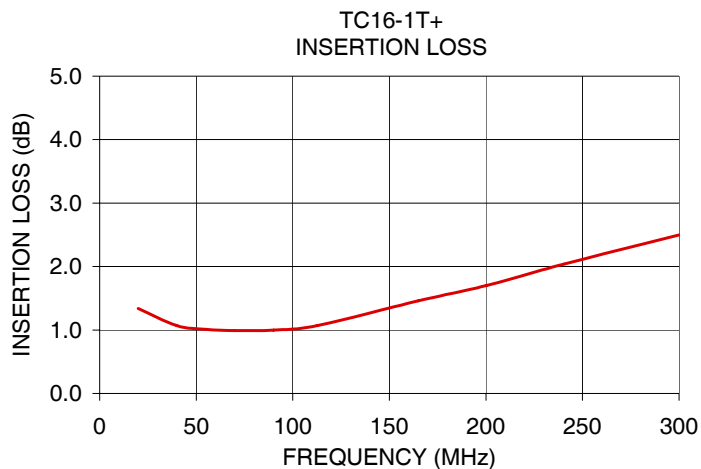
Weight: 0.15 grams

TAPE & REEL INFORMATION: F17



TYPICAL PERFORMANCE DATA

FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)
20.00	1.34	13.77
40.00	1.07	16.14
55.00	1.01	15.90
70.00	0.99	14.80
90.00	1.00	13.12
112.50	1.07	11.35
165.00	1.46	8.32
200.00	1.70	6.90
240.60	2.04	5.63
300.00	2.50	4.34



- NOTES
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- 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.
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