



SURFACE MOUNT

RF Transformer

TC4-6TG2+

50Ω 1.5 to 600 MHz

FEATURES

- Suitable for Tin/Lead and RoHS Solder Systems
- Wideband, 1.5 to 600 MHz
- Good Return Loss
- Aqueous Washable



Generic photo used for illustration purposes only

CASE STYLE: AT224-3

+RoHS Compliant

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

APPLICATIONS

- CATV
- VHF/UHF Receivers/Transmitters

ELECTRICAL SPECIFICATIONS AT +25°C

Parameter	Frequency (MHz)	Min.	Typ.	Max.	Unit
Impedance Ratio (Secondary/Primary)			4		Ohms
Frequency Range		1.5		600	MHz
Insertion Loss ¹	1.5-600			3.0	dB
	2-400			2.0	
	3-350			1.0	

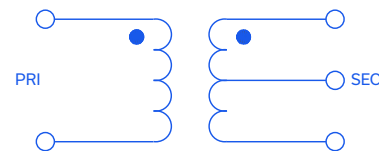
1. Insertion Loss is referenced to mid-band loss, 0.6 dB typ.

ABSOLUTE MAXIMUM RATINGS

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

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

CONFIG. A





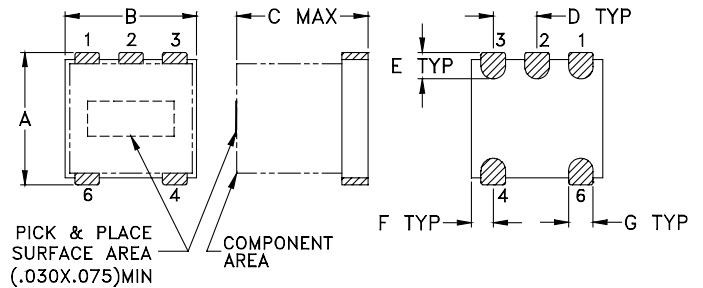
PIN CONNECTIONS

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

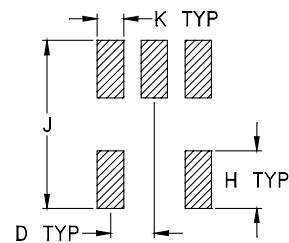
PRODUCT MARKING: N/A

DEMO BOARD MCL P/N: TB-TC4-6TG2+

OUTLINE DRAWING



PCB Land Pattern

Suggested Layout,
Tolerance to be within ± 0.002 in

OUTLINE DIMENSIONS (Inch mm)

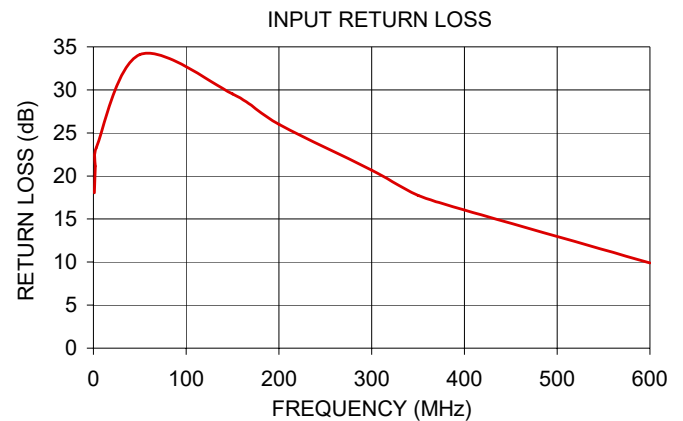
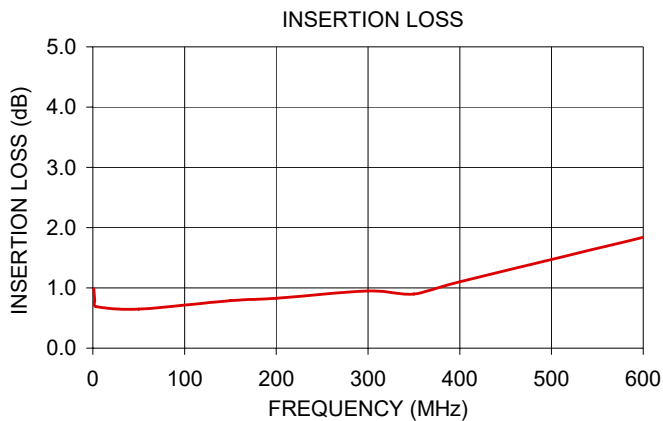
A	B	C	D	E	F
.150	.150	.150	.050	.030	.025
3.81	3.81	3.81	1.27	0.76	0.64
G	H	J	K		wt
.028	.065	.190	.030		grams
0.71	1.65	4.83	0.76		0.10

TAPE & REEL INFORMATION: F17



TYPICAL PERFORMANCE DATA

FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)
1	0.99	18.04
2	0.79	21.15
3	0.69	23.26
50	0.65	34.11
150	0.79	29.54
200	0.83	26.00
300	0.95	20.67
350	0.90	17.75
400	1.10	16.06
600	1.84	9.91



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/terms/viewterm.html