

Mini-Circuits®

SURFACE MOUNT

## RF Transformer

TC8-1G2+

50Ω 2 to 500 MHz

## FEATURES

- Suitable for tin/lead and RoHS solder systems
- Wideband, 2 to 500 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

- Push-pull amplifier
- Impedance matching

## ELECTRICAL SPECIFICATIONS AT 25°C

Parameter	Frequency (MHz)	Min.	Typ.	Max.	Unit
Impedance Ratio (secondary/primary)			8		Ohm
Frequency Range		2		500	MHz
Insertion Loss*	2-500		3.0		dB
	5-400		2.0		
	10-100		1.0		

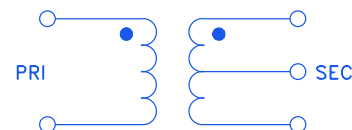
\* Insertion Loss is referenced to mid-band loss, 0.8 dB typ.

## ABSOLUTE 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



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REV. B  
ECO-022715  
TC8-1G2+  
MCL NY  
240808

PAGE 1 OF 3

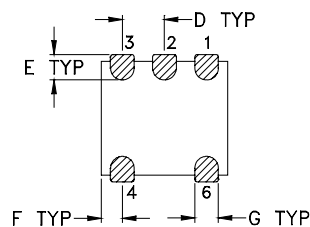
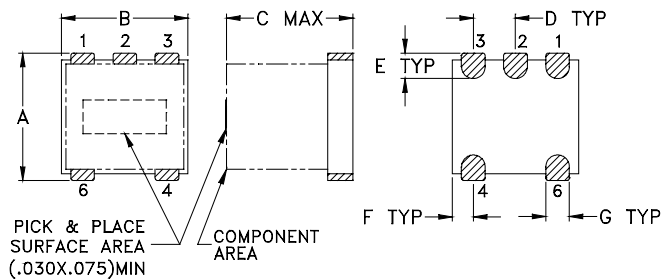


## PIN CONNECTIONS

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

PRODUCT MARKING: N/A

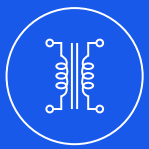
## OUTLINE DRAWING



## OUTLINE DIMENSIONS (Inch mm)

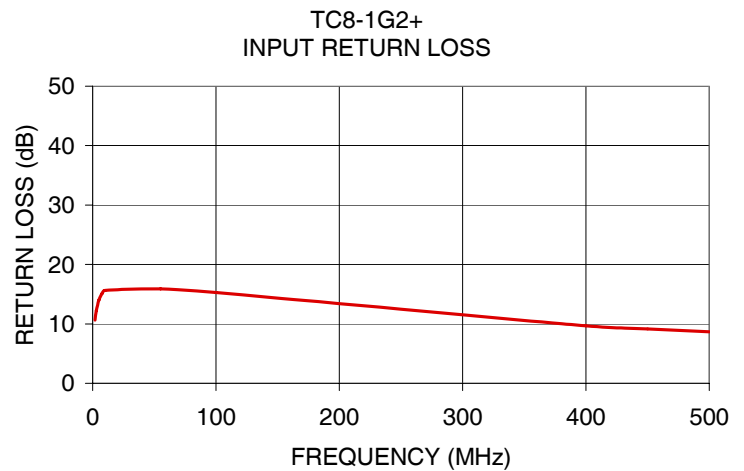
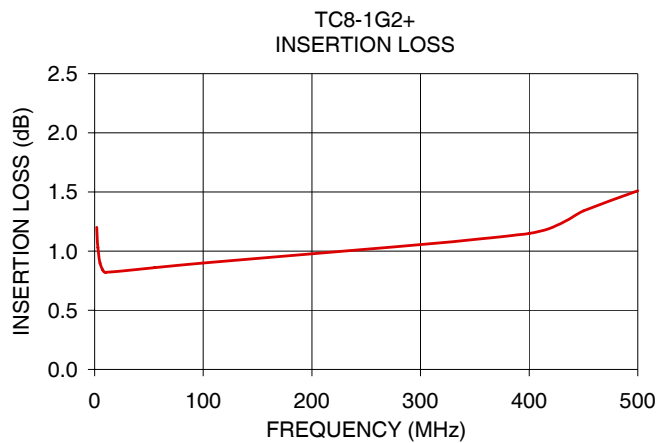
A	B	C	D	E	F
.150	.150	.150	.050	.030	.025
3.81	3.81	3.81	1.27	0.76	0.64
G	H	J	K		wt
.028	.065	.190	.030		grams
0.71	1.65	4.83	0.76		0.10

TAPE &amp; REEL INFORMATION: F17



## TYPICAL PERFORMANCE DATA

FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)
2.00	1.20	10.65
3.00	1.03	12.20
5.00	0.90	14.01
7.50	0.84	15.09
10.00	0.82	15.64
55.00	0.86	15.88
100.00	0.90	15.29
400.00	1.15	9.68
450.00	1.34	9.15
500.00	1.51	8.67



## 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](http://www.minicircuits.com/terms/viewterm.html)