



Mini-Circuits

SURFACE MOUNT 

RF Transformer

TC4-25X+

50Ω 500 to 2500 MHz

FEATURES

- Wideband, 500-2500 MHz
- Balanced transmission line with secondary center tap
- Good return loss
- Plastic base with leads
- Aqueous washable



Generic photo used for illustration purposes only

CASE STYLE: AT1521

+RoHS Compliant

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

APPLICATIONS

- PCS
- Cellular

ELECTRICAL SPECIFICATIONS AT 25°C

Parameter	Condition	Min.	Typ.	Max.	Unit
Impedance Ratio (secondary/primary)			4		
Frequency Range		500		2500	MHz
Insertion Loss*	500-2500		3.0		dB
	700-1500		2.0		
	750-1200		1.0		

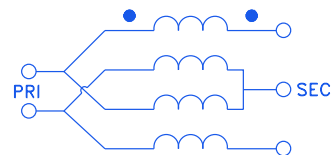
* Insertion Loss is referenced to mid-band loss, 0.2 dB typ.

MAXIMUM RATINGS

Parameter	Ratings
Operating Temperature	-40°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. H



REV. B
ECO-014884
TC4-25X+
IG/TD/AM
230808

 Mini-Circuits

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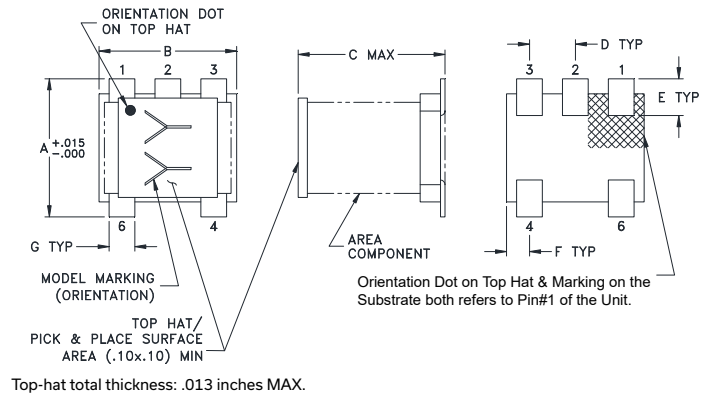


PIN CONNECTIONS

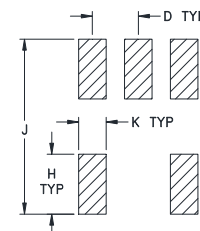
PRIMARY DOT	6
PRIMARY	4
SECONDARY DOT	3
SECONDARY	1
SECONDARY CT	2

PRODUCT MARKING: CW

OUTLINE DRAWING



PCB Land Pattern

Suggested Layout,
Tolerance to be within $\pm.002$ OUTLINE DIMENSIONS ($\frac{\text{Inch}}{\text{mm}}$)

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

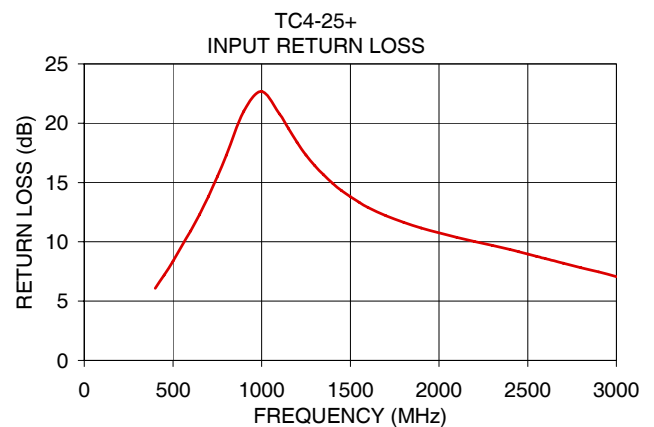
Weight: 0.15 grams

TAPE & REEL INFORMATION: F17



TYPICAL PERFORMANCE DATA

FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)
500.00	1.07	8.37
1000.00	0.37	22.67
1500.00	0.59	13.79
1600.00	0.64	12.90
1800.00	0.74	11.65
2000.00	0.84	10.75
2200.00	0.96	10.03
2400.00	1.08	9.35
2500.00	1.14	8.96
2800.00	1.38	7.82
3000.00	1.59	7.06



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

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