Surface Mount
RF Transformer

TC8-1X+

50Ω   2 to 500 MHz

CASE STYLE: AT1521
PRICE: $2.19 ea. QTY (20)
$1.19 ea. QTY (100)

+ RoHS compliant in accordance with EU Directive (2002/95/EC)

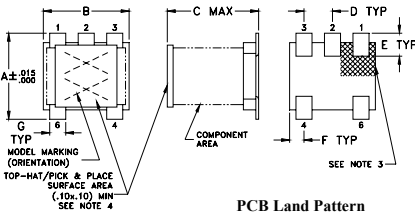*The +Suffix has been added in order to identify RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.*
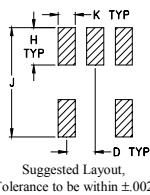
Maximum Ratings

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.

Pin Connections

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

Features

• wideband, 2 to 500 MHz
• good return loss
• plastic base with leads
• aqueous washable

Applications

• push-pull amplifier
• impedance matching

Outline Drawing AT1521

PCB Land Pattern

Suggested Layout,
Tolerance to be within ±.002

Notes:
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.
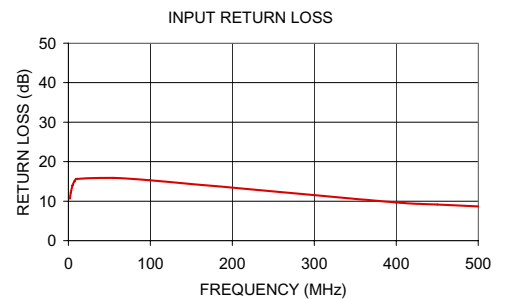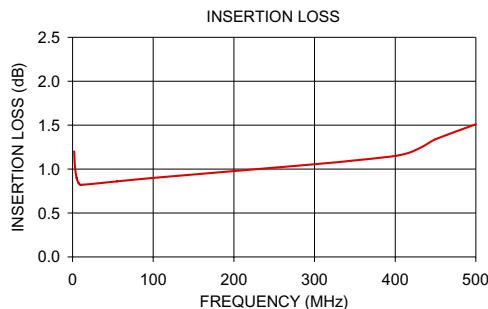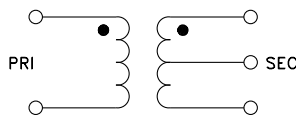4. Top-Hat total thickness: .013 inches max.

Outline Dimensions (inch / mm)

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

Config. A

Transformer Electrical Specifications

Ω RATIO (Secondary/Primary)	FREQUENCY (MHz)	INSERTION LOSS*		
		3 dB MHz	2 dB MHz	1 dB MHz
8	2-500	2-500	5-400	10-100

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

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

REV. OR
M134154
TC8-1X+
IG/TD/CP/AM
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