Surface Mount

RF Transformer

This model is a reference design for ADI (Linear Technology) LTC6432-15

SYTX2-6T-1+

50Ω 0.05 to 35 MHz

CASE STYLE: 99-01-1596-1

+RoHS Compliant

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

Available Tape and Reel at no extra cost

Reel Size	Devices/Reel
13"	200

Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power	0.01W
DC Current	30mA

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

Pin Connections

PRIMARY DOT	1
PRIMARY	4
SECONDARY DOT	8
SECONDARY	5
SECONDARY CT	2,3,6,7(GND)

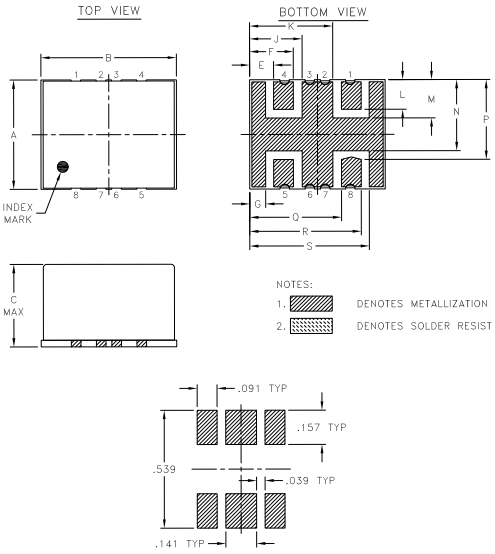
Features

- good IP3 at low frequencies

Applications

- linear amplifier

Outline Drawing

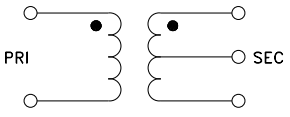


Outline Dimensions (inch / mm)

A	B	C	E	F	G	J	K
.50	.62	.38	.110	.200	.073	.240	.380
12.70	15.75	9.65	2.79	5.08	1.85	6.10	9.65

L	M	N	P	Q	R	S	wt
.135	.175	.325	.365	.420	.510	0.547	grams
3.43	4.45	8.26	9.27	10.67	12.95	13.89	3.00

Config. A



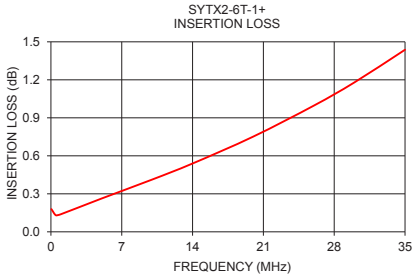
Electrical Specifications at 25°C

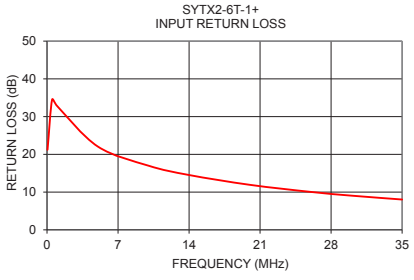
Parameter	Frequency (MHz)	Min.	Typ.	Max.	Unit
Impedance Ratio (secondary/primary)			2		Ohm
Frequency Range		0.05	—	35	MHz
Insertion Loss	0.05-10 10-20 20-35	— — —	— — —	1 2 3	dB
IP3* (2 tones, 10KHz separation @ 10 dBm)		30	—	—	dB

* By design, evaluated by customer, not tested in production.

Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)
0.050	0.18	21.19
0.500	0.13	34.47
1.000	0.14	32.80
5.000	0.26	22.08
10.000	0.41	16.99
14.000	0.54	14.52
20.000	0.75	11.92
26.000	1.00	10.04
30.000	1.18	9.05
35.000	1.44	8.03





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/MCLStore/terms.jsp