



SURFACE MOUNT

RF Transformer

ADT1-1+

Mini-Circuits

50Ω

0.15 to 400 MHz

FEATURES

- Good return loss, 22 dB in 1 dB bandwidth
- Excellent amplitude unbalance, 0.1 dB typ. and phase unbalance, 2 deg. typ. in 1dB bandwidth
- Aqueous washable
- Protected under US patent 6,133,525



Generic photo used for illustration purposes only

CASE STYLE: CD542

+RoHS Compliant

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

APPLICATIONS

- Impedance matching
- Baluns

ELECTRICAL SPECIFICATIONS AT 25°C

Parameter	Frequency (MHz)	Min.	Typ.	Max.	Units
Impedance Ratio			1		
Frequency Range		0.15		400	MHz
Insertion Loss*	0.15-400	—	3	—	dB
	0.2-200	—	2	—	
	0.3-100	—	1	—	
Amplitude Unbalance	0.2-200	—	0.5	—	dB
	0.3-100	—	0.1	—	
Phase Unbalance	0.2-200	—	5	—	Degree
	0.3-100	—	2	—	

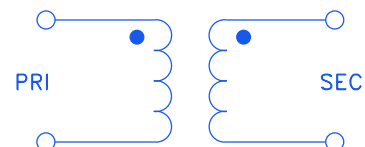
* Insertion Loss is referenced to mid-band loss, 0.3 dB typ.

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.

CONFIGURATION C



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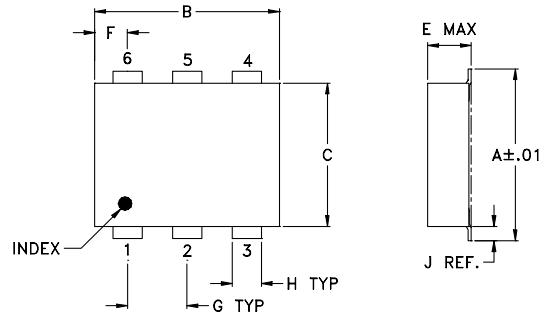
PIN CONNECTIONS

PRIMARY DOT	3
PRIMARY	1
SECONDARY DOT	4
SECONDARY	6
NOT USED	2,5

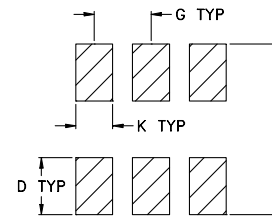
PRODUCT MARKING: N/A

DEMOBOARD MCL P/N: TB-430

OUTLINE DRAWING



PBC Land Pattern



Suggested Layout
Tolerance to be within $\pm .002$

OUTLINE DIMENSIONS (Inches/mm)

A	B	C	D	E	F	G
.272	.310	.220	.100	.112	.055	.100
6.91	7.87	5.59	2.54	2.84	1.40	2.54
H	J	K	L			wt
.030	.026	.065	.300			grams
0.76	0.66	1.65	7.62			0.20

TAPE & REEL INFORMATION: F34