



SURFACE MOUNT

RF Transformer

ADT16-6T+

Mini-Circuits

50Ω

0.1 to 70 MHz

FEATURES

- Excellent return loss, 16 dB typ. in 1 dB bandwidth
- Excellent amplitude unbalance, 0.05 dB typ.
- Excellent phase unbalance, 1 deg. typ. in 1 dB bandwidth
- Aqueous washable
- Protected under US patent 6,133,525



Generic photo used for illustration purposes only

CASE STYLE: CD637

+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 (Secondary/Primary) | | | 16 | | |
| Frequency Range | | 0.1 | | 70 | MHz |
| Insertion Loss* | 0.1-70 | — | 3 | — | dB |
| | 0.18-45 | — | 2 | — | |
| | 0.30-33 | — | 1 | — | |
| Amplitude Unbalance | 0.30-33 | — | 0.05 | — | dB |
| | 0.18-45 | — | 0.1 | — | |
| Phase Unbalance | 0.30-33 | — | 1 | — | Degree |
| | 0.18-45 | — | 2 | — | |

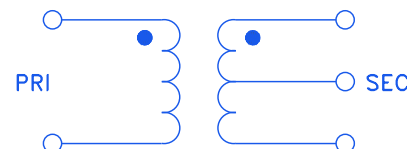
* Insertion Loss is referenced to mid-band loss, 0.3 dB typ.

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 A





SURFACE MOUNT

RF Transformer

ADT16-6T+

Mini-Circuits

50Ω

0.1 to 70 MHz

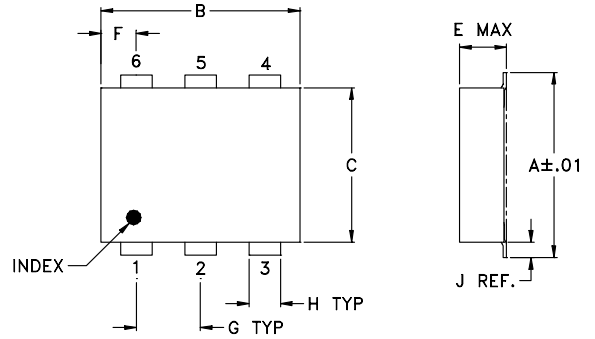
PIN CONNECTIONS

| | |
|---------------|---|
| PRIMARY DOT | 3 |
| PRIMARY | 1 |
| SECONDARY DOT | 4 |
| SECONDARY | 6 |
| SECONDARY CT | 5 |
| NOT USED | 2 |

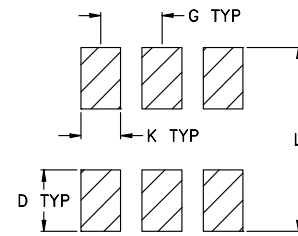
PRODUCT MARKING: N/A

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 | .206 | .055 | .100 |
| 6.91 | 7.87 | 5.59 | 2.54 | 5.23 | 1.40 | 2.54 |
| H | J | K | L | | | wt |
| .030 | .026 | .065 | .300 | | | grams |
| 0.76 | 0.66 | 1.65 | 7.62 | | | 0.40 |

TAPE & REEL INFORMATION: F46