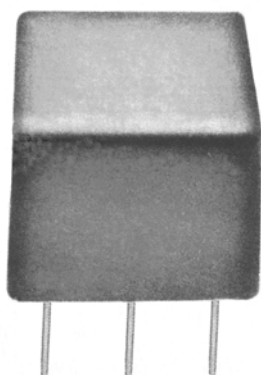




LF-412
Wideband
RF/Pulse
Transformers
.01-25 MHz



DESCRIPTION

The LF series offers a variety of transformer configurations over the 10 KHz to 100 MHz frequency range.

Typical applications are: Interstage coupling, voltage/current transformation, and pulse transformation.

The transformer circuitry is packaged in an epoxy housing. All models are designed to meet MIL-T-55631 and are recommended for use over the -54°C to $+100^{\circ}\text{C}$ temperature range.

GUARANTEED MINIMUM PERFORMANCE DATA SPECIFICATIONS FOR MODEL LF-412

Type: 50 ohm unbalanced
50 ohm unbalanced
ph. rev. DC isolated

- 1 dB Bandwidth, MHz .01-25
Midband insertion loss dB .5
VSWR 1.5:1

NOTE:

- 1 dB bandwidth is measured relative to midband loss.

ABSOLUTE MAXIMUM RATINGS:

Input power 2 w. limited by
 $(I_{DC}^2 + I_{RF}^2)Z \cong P_{max}$.
Temperature range -54°C to $+100^{\circ}\text{C}$

ENVIRONMENTAL CONDITIONS

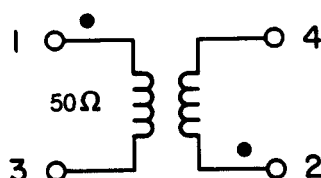
GUARANTEED ENVIRONMENTAL PERFORMANCE:

All units are designed to meet their specifications over -54°C to $+100^{\circ}\text{C}$ and after exposure to any or all of the following tests per MIL-STD-202E.

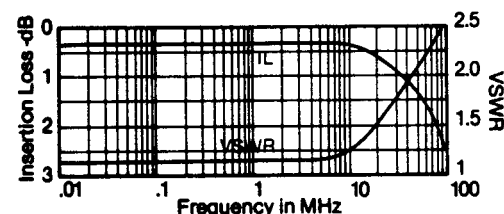
| Exposure | Method | Test Condition |
|---|--------|----------------|
| Thermal Shock | 107D | B |
| Altitude | 105C | G |
| H.F. Vibration | 204C | D |
| Mechanical Shock | 213B | C |
| Random Vibration (15 minutes per axis) | 214 | IIF |
| Solderability | 208C | |
| Terminal Strength | 211A | C |
| Resistance to Soldering Heat | 210A | B |

Sealed units, meet the requirements of Method 106D of MIL-STD-202E when exposed to humidity.

FUNCTIONAL SCHEMATIC



TYPICAL PERFORMANCE



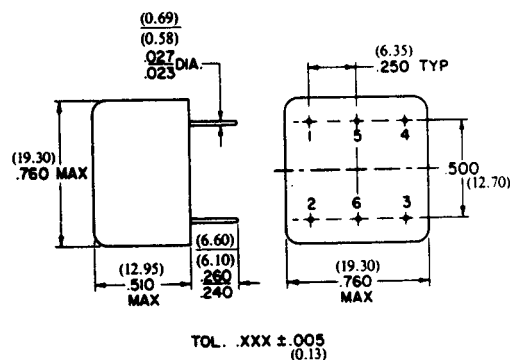
PACKAGE

MATERIAL:

Header: Epoxy
Leads: Phosphor Bronze, Grade A, Spring temper

FINISH:

Header: Glossy red Diallyl Phthalate
Leads: Silver plated per QQ-S-365A, Type I, Grade B



Specifications subject to change without notice.

8.10.04 Rev. A