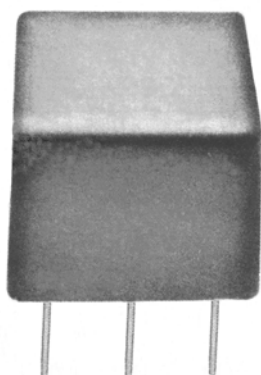


LF-428/LF-432  
Wideband  
RF/Pulse  
Transformers  
.01-50 MHz/.01-25 MHz



### 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°C temperature range.

### GUARANTEED MINIMUM PERFORMANCE DATA

#### SPECIFICATIONS FOR MODEL LF-428

Type: 50 ohm unbalanced  
200 ohm balanced  
DC isolated

-1 dB Bandwidth, MHz .01-50  
Midband insertion loss dB .5  
Amplitude unbalance dB 1.0  
Phase unbalance (deviation from 180°)° 10  
VSWR 2:1

#### SPECIFICATIONS FOR MODEL LF-432

Type: 50 ohm unbalanced  
600 ohm balanced  
DC isolated

-1 dB Bandwidth, MHz .01-25  
Midband insertion loss dB .75  
Amplitude unbalance dB .75  
Phase unbalance (deviation from 180°)° 15  
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°C

### ENVIRONMENTAL CONDITIONS

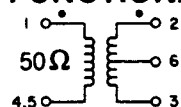
#### GUARANTEED ENVIRONMENTAL PERFORMANCE:

All units are designed to meet their specifications over -54°C to +100°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	214	IIF
(15 minutes per axis)		
Solderability	208C	
Terminal Strength	211A	C
Resistance to Soldering Heat	210A	B

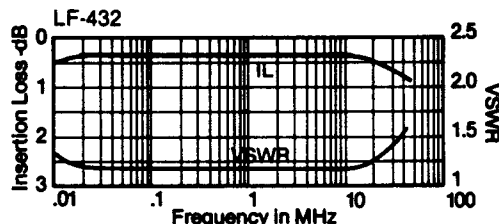
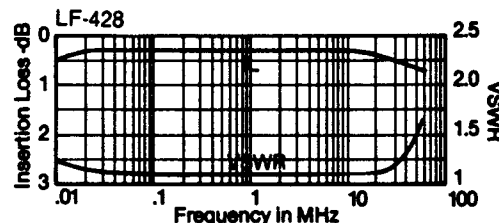
Sealed units, meet the requirements of Method 106D of MIL-STD-202E when exposed to humidity.

### FUNCTIONAL SCHEMATIC



Specifications subject to change without notice.

### TYPICAL PERFORMANCE



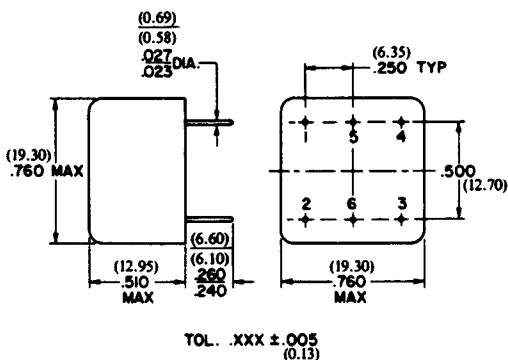
### PACKAGE

#### 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



TOL. .XXX ±.005 (0.13)

8.10.04 Rev. A