SIRENZA® MICRODEVICES

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 $+100^{\circ}$ C temperature range.

SPECIFICATIONS FOR MODEL LF-412 Type: 50 ohm unbalanced 50 ohm unbalanced ph. rev. DC isolated

 – 1 dB Bandwidth, MHz Midband insertion loss dB VSWR 	.01-25 .5 1.5:1
10111	

GUARANTEED MINIMUM PERFORMANCE DATA

NOTE:

- 1 dB bandwidth is measured relative to midband loss.

ABSOLUTE MAXIMUM RATINGS:

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

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.

		Test
Exposure	Method	Condition
Thermal Shock	107D	В
Altitude	105C	G
H.F. Vibration	204C	D
Mechanical Shock	213B	С
Random Vibration	214	llF
Solderability	208C	
Terminal Strength	211A	С
Resistance to		-
Soldering Heat	210A	В

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

FUNCTIONAL SCHEMATIC



TYPICAL PERFORMANCE



PACKAGE

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

Specifications subject to change without notice.