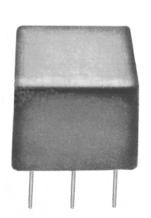


LF-452/LF-454 · Wideband RF/Pulse Transformers .01-10 MHz/.01-5 MHz



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 MILT-55631 and are recommended for use over the -54°C to +100°C temperature range.

GUARANTEED MINIMUM PERFORMANCE DATA

SPECIFICATIONS FOR MODEL LF-452

Type: 50 ohm unbalanced 800 ohm balanced DC isolated

- 1 dB Bandwidth, MHz	.01-10
Midband insertion loss dB	.75
Amplitude unbalance dB	.75
Phase unbalance	
(deviation from 180°)°	15
VSWR	2:1

SPECIFICATIONS FOR MODEL LF-454

Type: 50 ohm unbalanced 1800 ohm balanced DC isolated

- 1 dB Bandwidth, MHz	.01-5
Midband insertion loss dB	1.0
Amplitude unbalance dB	.6
Phase unbalance	
(deviation from 180°)°	5
VSWR	2.5:1

NOTE:

 $-\,$ 1 dB bandwidth is measured relative to midband loss.

ABSOLUTE MAXIMUM RATINGS:

Input power 2 w. limited by (IDC2 + IRF2)Z ≅ Pmax.
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

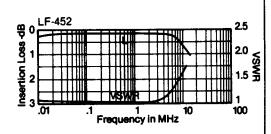
MIL-51D-202E.		Test
Exposure	Method	Condition
Thermal Shock	107D	В
Altitude	105C	G
H.F. Vibration	204C	D
Mechanical Shock	213B	С
Random Vibration (15 minutes per axis)	214	iiF
Solderability	208C	•
Terminal Strength	211A	С
Resistance to		_
Soldering Heat	210A	В

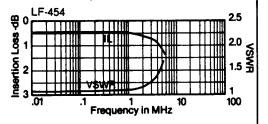
Sealed units, meet the requirements of Method 106D of MIL-STD-202E when exposed to humidity.

FUNCTIONAL SCHEMATIC



TYPICAL PERFORMANCE





PACKAGE MATERIAL:

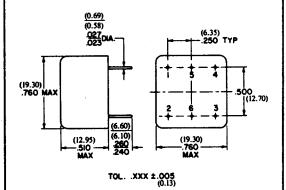
Header: Epoxy Leads: Phosphor Bronze, Grade

A, Spring temper

FINISH:

Header: Glossy red Diallyl Phthalate

Leads: Silver plated per QQ-S-365A, Type I, Grade B



8.10.04 Rev. A

Specifications subject to change without notice.