FP-504/FP-514 Wideband RF/Pulse Transformer 1-500 MHz





DESCRIPTION

Subminiature size, easily solderable or weldable planar ribbon leads and high performance design makes the FP transformer ideal for MIC substrate and printed circuits. These transformers are high

These transformers are high reliability devices designed to meet MIL-T-55631. Typical applications are: Interstage coupling, phase detection, voltage/current step up/step down and pulse transformation.

GUARANTEED MINIMUM PERFORMANCE DATA

SPECIFICATIONS FOR MODEL FP-504

Type: 50 ohm unbalanced 25 ohm unbalanced

- 1 dB Bandwidth, MHz 1-500 Midband insertion loss dB VSWR 1-350 MHz 1.3:1 350-500 MHz 2.5:1

SPECIFICATIONS FOR MODEL FP-514

Type: 50 ohm unbalanced 75 ohm unbalanced

- 1 dB Bandwidth, MHz1-500Midband insertion loss dB VSWR1-501.4:1

NOTE:

- 1 dB bandwidth is measured relative to midband loss.

ABSOLUTE MAXIMUM RATINGS:

Input power *1 w. above 10 MHz, .25 w. below 10 MHz
Temperature range -54° to +100°C

*Includes DC current effects by approx.
(IDC2 + IRF2)Z = Pmax.

ENVIRONMENTAL CONDITIONS

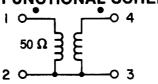
GUARANTEED ENVIRONMENTAL PERFORMANCE:

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

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

FUNCTIONAL SCHEMATIC



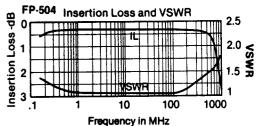
TYPICAL PERFORMANCE

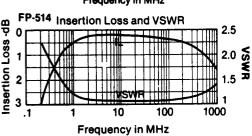
FP-504

Risetime: .3 nS Droop: (10%) 250 nS Group delay: <1 nS

FP-514

Risetime: .3 nS Droop: (10%) 250 nS Group delay: <1 nS





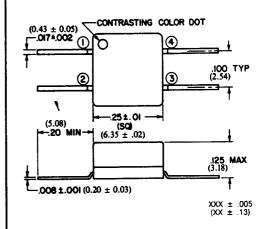
PACKAGE

MATERIAL:

Header: Glass filled epoxy Leads: Kovar per MIL-STD-1276, Type K

FINISH:

Header: Black epoxy Leads: Tin plate per MIL-T-10727, Type 1



8.10.04 Rev. A

Specifications subject to change without notice.