FP-510 Wideband RF/Pulse Transformer 1-1000 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 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-510

Type: 50 ohm unbalanced 50 ohm balanced

 1 dB Bandwidth, 	MHz	1-1000
Midband insertion loss dB		.50
Amplitude unbalance dB		2
Phase unbalance°		10
VSWR	1-400 MHz	1.3:1
40	00-1000 MH	2.5:1

NOTE:

 1 dB bandwidth is measured relative to midband loss.

ABSOLUTE MAXIMUM RATINGS:

Input power 1 w.*
Temperature range - 54° to +100°C
*Includes DC current effects by approx.

(IDC2 + IRF2)Z = Pmax.

ENVIRONMENTAL CONDITIONS

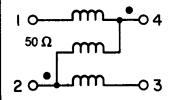
GUARANTEED ENVIRONMENTAL PERFORMANCE:

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

	Test
Method	Condition
107D	В
105C	G
204C	D
213B	С
214	IIF
208C	
211A	С
210A	В
	107D 105C 204C 213B 214 208C 211A

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

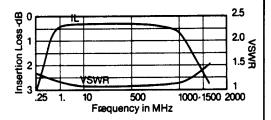
FUNCTIONAL SCHEMATIC



TYPICAL PERFORMANCE

FP-510

Risetime: .5 nS Droop: (10%) 250 nS Group delay: <1 nS



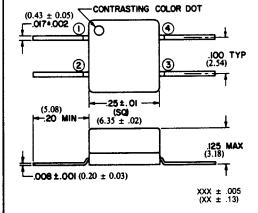
PACKAGE

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



Specifications subject to change without notice.

8.10.04 Rev. A