



3-WAY IN-PHASE DIVIDER/COMBINER

MODEL DF83-27

Guaranteed Specifications

Parameter	Range	Limits
Frequency	25 MHz to 1000 MHz	Center
Insertion Loss	25 MHz to 200 MHz	0.5 dB Max
	200 MHz to 1000 MHz	1.0 dB Max
Isolation	25 MHz to 50 MHz	15 dB Min
	50 MHz to 200 MHz	22 dB Min
	200 MHz to 1000 MHz	24 dB Min
Amplitude Balance	25 MHz to 200 MHz	0.25 dB Max
	200 MHz to 1000 MHz	0.4 dB Max
Phase Balance	25 MHz to 200 MHz	2° Max
	200 MHz to 1000 MHz	4° Max
VSWR		
Input	25 MHz to 1000 MHz	1.4:1 Max
Output	25 MHz to 50 MHz	1.9:1 Max
	50 MHz to 200 MHz	1.7:1 Max
	200 MHz to 1000 MHz	1.5:1 Max

Note: All specifications apply in a 50 Ohm system at specified levels at 25°C.

Maximum Ratings

Impedance	50 Ohms Nominal
Maximum Power Rating or Input Power	1.0 Watt Max
Internal Load Dissipation	0.05 Watt Max
Package Type	Flatpack
Pin Configuration	IN; P3, Outputs P6, P8 & P10 Case and all other pins are ground

Reliability

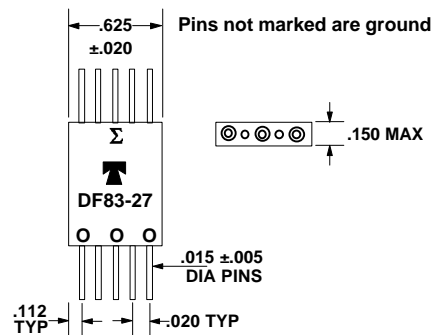
All units are designed and constructed to meet or exceed specifications after exposure to any or all of the following MIL-STD-202 tests which are applicable.

Test	Method	Condition
Temperature Cycle	107G	A
Thermal Cycle	107G	AA
Seal	112E	D
Vibration	204D	A
Solderability	208F	
Terminal Strength	211A	A
Terminal Fatigue	211A	C
Mechanical Shock	213B	C

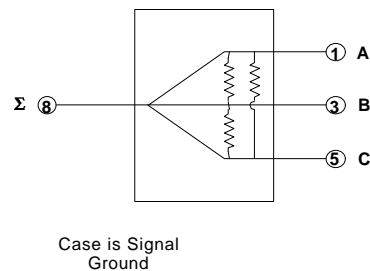
Features

- ♦ 0.4dB Typical Midband Insertion Loss
- ♦ 35dB Typical Midband Isolation
- ♦ 1.2:1 Typical Input VSWR

Outline Drawing



Block Diagram



All characteristics of Tele-Tech products may be modified to meet customer requirements.

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