



2-WAY IN-PHASE DIVIDER/COMBINER

MODEL DS81A

Guaranteed Specifications

Parameter	Range	Limits
Frequency	1 MHz to 1000 MHz	Min
Insertion Loss	1 MHz to 100 MHz	.5 dB Max
	100 MHz to 500 MHz	.75 dB Max
	500 MHz to 1000 MHz	1.0 dB Max
Isolation	1 MHz to 100 MHz	15 dB Min
	100 MHz to 500 MHz	25 dB Min
	500 MHz to 1000 MHz	20 dB Min
Amplitude Balance	1 MHz to 100 MHz	.15 dB Max
	100 MHz to 500 MHz	.20 dB Max
	500 MHz to 1000 MHz	.40 dB Max
Phase Balance	1 MHz to 100 MHz	2° Max
	100 MHz to 1000 MHz	5° Max
VSWR Sum Port	5 MHz to 100 MHz	1.2:1 Max
	100 MHz to 1000 MHz	1.4:1 Max
A + B Ports	5 MHz to 100 MHz	1.2:1 Max
	100 MHz to 1000 MHz	1.5:1 Max
Impedance	50 Ohms	Nominal

Note: All specifications apply in a 50 Ohm system.
75 Ohm models are available.

Maximum Ratings

Input Power	1 Watt
Internal Dissipation	125 mW
Temperature Range	-54°C to +85°C

Reliability

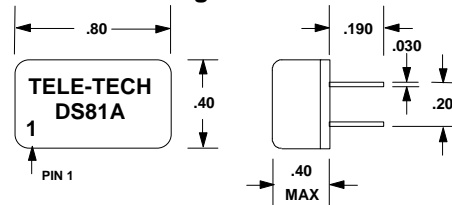
All units are designed and constructed to meet or exceed specifications after exposure to any or all of the following MIL-STD-202 tests which are applicable.

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

Features

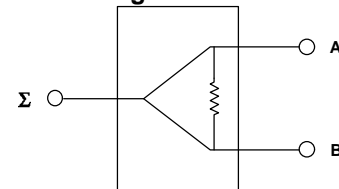
- ♦ Low Cost
- ♦ High Reliability
- ♦ Standard Relay Header

Outline Drawing



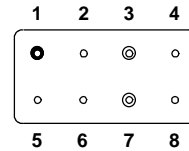
Weight (Approx.) 3 grams

Block Diagram



Case is Signal Ground

Connections



PORT	3
SUM PORT	1
PORT B	7
GROUND	2,4,5,6,8

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

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