



2-WAY IN-PHASE DIVIDER/COMBINER

MODEL DX06-25

Guaranteed Specifications

Parameter	Range	Limits
Frequency	10 MHz to 1 GHz	Min
Insertion Loss	10 MHz to 500 MHz	.5 dB Max
	500 MHz to 1 GHz	1 dB Max
Isolation	10 MHz to 40 MHz	30 dB Min
	40 MHz to 100 MHz	25 dB Min
	100 MHz to 500 MHz	20 dB Min
	500 MHz to 1 GHz	15 dB Min
Amplitude Balance	10 MHz to 1 GHz	.2 dB Max
Phase Balance	10 MHz to 1 GHz	1° Max
VSWR	Input port	10 MHz to 1 GHz
	Output ports	10 MHz TO 1 GHz
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	100 mW
Temperature Range	-54°C to +85°C

Reliability

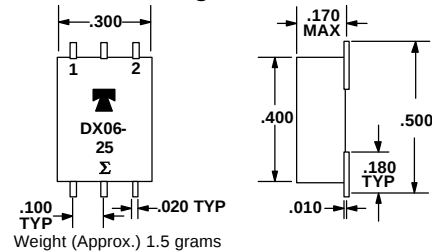
All units are designed and constructed to meet or exceed specifications after exposure to any or all of the following MIL-STD-202 tests which are applicable.

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

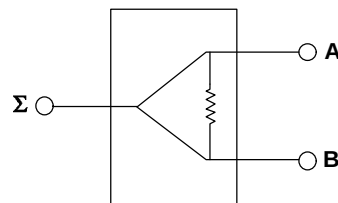
Features

- ◆ >3 Decade Bandwidth
- ◆ Small Footprint (0.1 in²)
- ◆ <0.3 dB Midband Loss
- ◆ >20 dB Midband Isolation

Outline Drawing

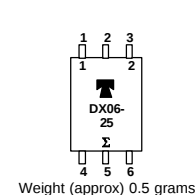


Block Diagram



Case is Signal Ground

Connections



SUM PORT	5
A PORT	3
B PORT	1
GROUND	2,4,6

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

P.O. Box 790, Bozeman, Montana 59717
Phone: (406) 586-0291 Fax: (406) 587-0653 E-mail: admin@tele-tech-rf.com