



# "MAGIC TEE" HYBRID

## 180° HYBRID JUNCTION

## MODEL HT22B

### Guaranteed Specifications

Parameter	Range	Limits
Frequency	300 MHz to 1000 MHz	Min
Insertion Loss	300 MHz to 1000 MHz	1.8 dB Max
Isolation	300 MHz to 500 MHz	30 dB Min
	500 MHz to 800 MHz	25 dB Min
	800 MHz to 1000 MHz	18 dB Min
Amplitude Balance		1.0 dB Max
Phase Balance		+/- 4° Max
VSWR	All Ports	2:1 Max
Impedance		50 Ohms

Note: All specifications apply in a 50 Ohm system. Performance will differ slightly in a 75 Ohm system.

### Maximum Ratings

Input Power	0.5 Watt
Temperature Range	-54°C to +85°C

### Reliability

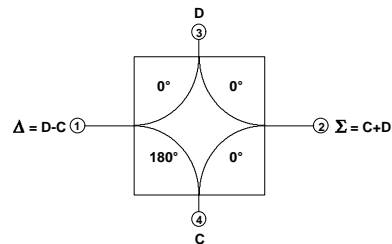
All units are designed and constructed to meet or exceed specifications after exposure to any or all of the following MIL-STD-202 tests which are applicable.

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

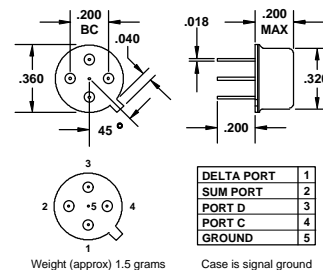
### Features

- ◆ >3 Decade Bandwidth
- ◆ >30 dB Midband Isolation
- ◆ <0.5 dB Midband Loss

### Block Diagram



### Outline Drawing



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

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