



180° "MAGIC TEE" HYBRID

180° HYBRID JUNCTION

MODEL HT22A

Guaranteed Specifications

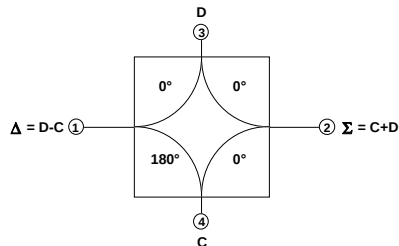
Parameter	Range	Limits
Frequency	300 kHz to 300 MHz	Min
Insertion Loss	300 kHz to 300 MHz	1 dB Max
Isolation	300 kHz to 100 MHz	35 dB Min
	100 MHz to 300 MHz	25 dB Min
Amplitude Balance	300 kHz to 100 MHz	.25 dB Max
	100 MHz to 300 MHz	.75 dB Max
Phase Balance	300 kHz to 100 MHz	1° Max
	100 MHz to 300 MHz	3° Max
VSWR	300 kHz to 1 MHz	1.5:1 Max
	1 MHz to 300 MHz	1.2:1 Max
Impedance	50 Ohms	Nominal

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

Block Diagram



Reliability

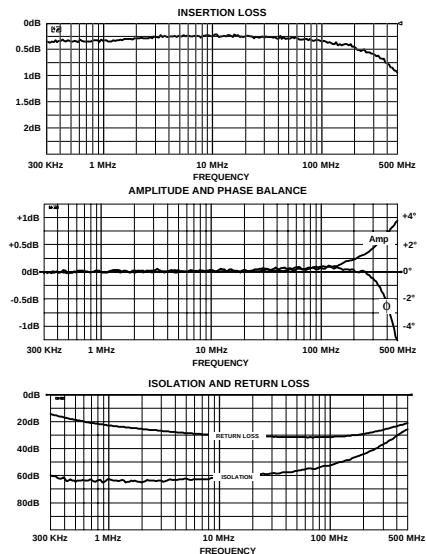
All units are designed and constructed to meet or exceed specifications after exposure to any or all of the following MIL-STD-202 tests which are applicable.

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

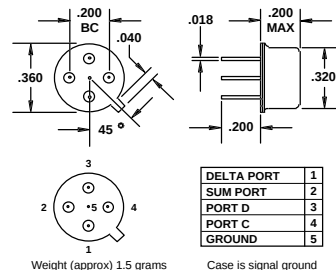
Features

- ◆ >3 Decade Bandwidth
- ◆ >40 dB Midband Isolation
- ◆ <0.5 dB Midband Loss

Typical Performance



Outline Drawing



Weight (approx) 1.5 grams

Case is signal ground

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

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