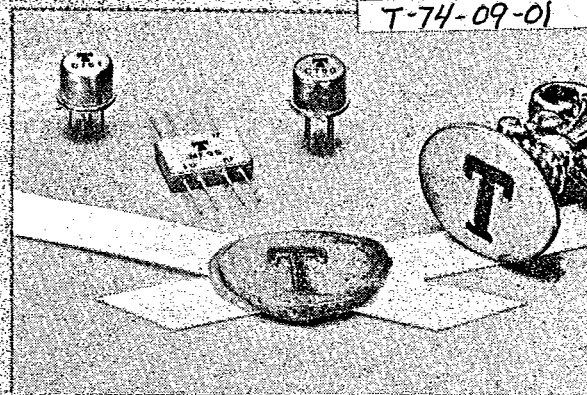


B-05-11

T-74-09-01

HYBRIDS

HYBRIDS**POWER DIVIDERS, COMBINERS
and DIRECTIONAL COUPLERS**PCB Packages
Hermetic**GUARANTEED SPECIFICATIONS**

Model	Operating Frequency	No. Ports	Output Difference	Port Impedance	Minimum Isolation	Amplitude Unbalance	Phase Unbalance	Max. VSWR	Insertion Loss	Max. Power
HT51	10-500 MHz	3	0°	50 ohms all	25 dB	.2 dB	1°	1.3:1	1 dB	1 w
HT81	1-300 MHz	3	0°	50 ohms all	25 dB	.2 dB	2°	1.5:1	1 dB	1 w
HT52	1-50 MHz	3	0°	50 ohms all	30 dB	.2 dB	2°	1.5:1	.5 dB	1 w
HT53D	10-100 MHz	3	0°	50 ohms A, B 25 ohms Σ	30 dB	.1 dB	1°	1.5:1	.5 dB	1 w
HT53C	100-200 MHz	3	0°	50 ohms A, B 25 ohms Σ	30 dB	.1 dB	1°	1.5:1	.5 dB	1 w
HT83Q	40-80 MHz	4	90°	50 ohms all	20 dB	1 dB	3°	1.2:1	.5 dB	5 w
HF83Q	50-100 MHz	4	90°	50 ohms all	20 dB	1 dB	3°	1.2:1	.5 dB	5 w
HT84Q				50 ohms all						
HF84Q				50 ohms all						

1. All units will operate in 75 ohm systems with only slight degradation at low frequencies.
2. This is only a partial listing of models available. If your application calls for specifications or packages not listed, call TELE-TECH Applications Engineering for assistance.
3. 50 and 75 ohm 2, 4, and 8 way in phase coaxial power divider assemblies are available in a variety of connector and package options.

GUARANTEED SPECIFICATIONS

Model	Coupling	Operating Frequency	Directivity	Insertion Loss	Flatness	VSWR	Max. Power
CT50	10 ±1 dB	10-200 MHz	20 dB	1.3 dB	±5 dB	1.5:1	1 w
CF80		5-500 MHz	15 dB	2.0 dB	±7 dB	2:1	
CT51	20 ±1 dB	10-200 MHz	20 dB	.6 dB	±5 dB	1.3:1	1 w
CF81		5-500 MHz	15 dB	1 dB		1.5:1	

1. Specifications apply in a 50 ohm system.

OPERATING CHARACTERISTICS

Maximum Operating Temperature

-54°C to 100°C
Derate to .5 power at 100°C

Maximum Storage Temperature

-65°C to 100°C

Maximum Pin Temperature

260°C (10 seconds maximum)

Weight

Less than .2 oz.

SCHEMATICS

DESCRIPTION

T-74-09-01

HYBRIDS

	Three port hybrids designed for in-phase power splitting or signal summing in 50 ohm systems.
	Three port hybrids designed for in-phase power splitting or signal summing in 50 ohm systems with a low impedance sum port.
	Broadband quadrature hybrids for imageless mixing, quadrature detection, and 90° phase splitting applications.
	Low loss directional couplers designed for signal sampling and VSWR protection applications.

MECHANICAL DATA
