**PRINCIPAL SPECIFICATIONS**

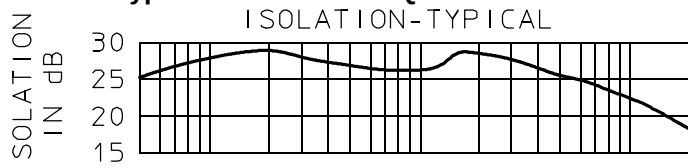
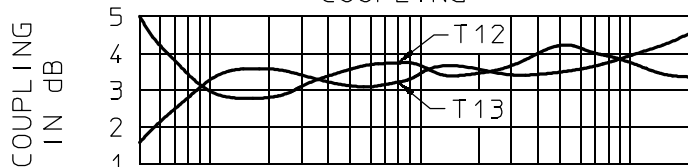
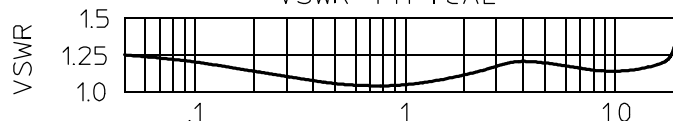
Model Number, BNC	Model Number, SMA	Freq. Range, MHz	Amplitude Balance, dB, Max.	Bandwidth Ratio	Insertion Loss, dB, Max.	Phase Tolerance	VSWR, Max.	Isolation, dB, Min.	Weight, oz.(g) Nom.
QH-7-4.9	QHM-7-4.9	0.1 - 10	1.0	100 : 1	1.5	$90^\circ \pm 5^\circ$	1.3:1	20	16(448)
QH-7-15	QHM-7-15	0.5 - 30	1.0	60 : 1	1.5	$90^\circ \pm 3^\circ$	1.3:1	20	7(196)
QH-7-17	QHM-7-17	2 - 32	1.0	16 : 1	1.0	$90^\circ \pm 3^\circ$	1.3:1	20	7(196)
QH-7-41	QHM-7-41	2 - 80	1.0	40 : 1	1.5	$90^\circ \pm 3^\circ$	1.3:1	20	7(196)
QH-7-126	QHM-7-126	2 - 250	1.3	125 : 1	2.0	$90^\circ \pm 6^\circ$	1.4:1	18	7(196)

General Notes:

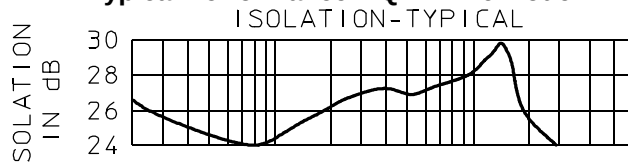
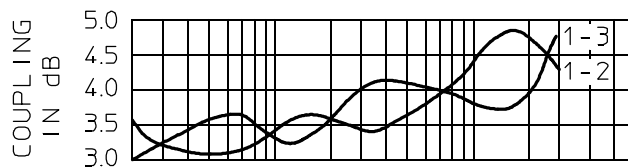
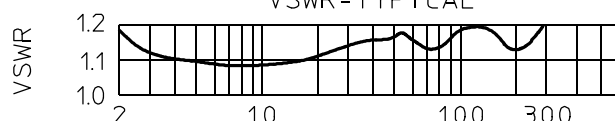
1. The QH-7 Series consists of multi-octave models with bandwidth ratios ranging from 16:1 to 125:1. Their function is to split an input signal into two equal amplitude, isolated outputs having a quadrature phase relationship. Conversely, these units may be used to combine two quadrature phased, equal amplitude signals into a single output.

GENERAL SPECIFICATIONS

Nominal Coupling: – 3 dB nom.
 CW Input: 1 W max. (1.2:1 VSWR_{out})
 (0.1 W for QH-7-4.9)
 Impedance: 50 Ω nom.
 Operating Temp: – 55° to +85°C

Typical Performance - QH-7-4.9 Model**ISOLATION-TYPICAL****COUPLING****VSWR-TYPICAL**

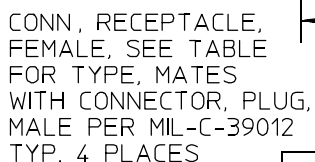
FREQUENCY IN MHz

Typical Performance - QH-7-126 Model**ISOLATION-TYPICAL****COUPLING****VSWR-TYPICAL**

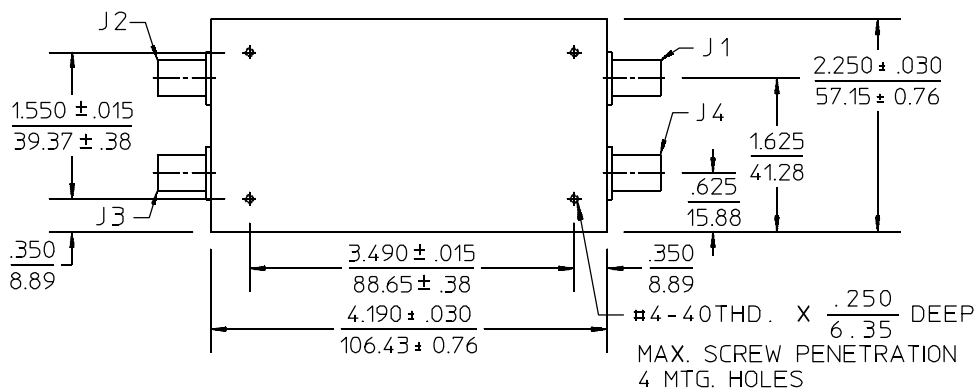
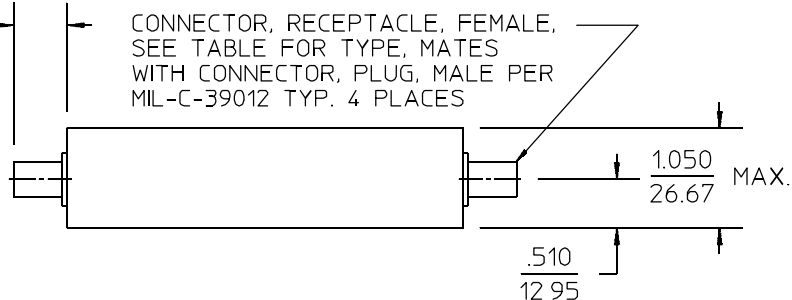
FREQUENCY IN MHz 24Apr96

100 kHz to 250 MHz / Multi-Section Lumped Element Designs / BNC & SMA Versions

QUAD HYBRIDS



NOTES: 1. Tolerance on 3 place decimals $\pm .020$ (.51) except as noted.
2. Dimensions in inches over millimeters.

$$\begin{array}{l} \text{BNC } \frac{.560}{14.22} \text{ MAX. TYP.} \\ \text{SMA } \frac{.430}{10.92} \text{ MAX. TYP.} \end{array}$$


NOTES: 1. Tolerances on 3 place decimals $\pm .020(.51)$ except as noted.
2. Dimensions are in inches over millimeters.