3 DB 90°

COUPLERS, HYBRID

WITH SMA OR N CONNECTORS 25 MHz TO 18 GHz

SERIES QH

GENERAL SPECIFICATIONS

Frequency Range:	25.0 MHz to 18.0 GHz
RF Impedance	50 OHMS
Temperature Information:	Operating temperature from –55° to +85°C.
Connectors:	SMA or Type N Female

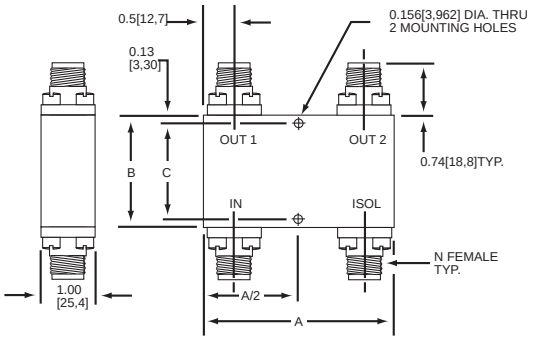


FIG.1 SERIES QH-N

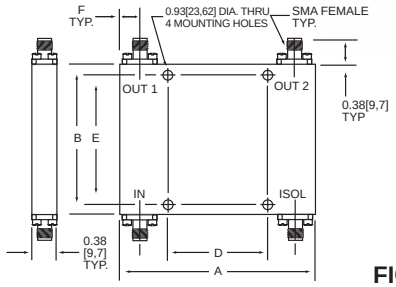
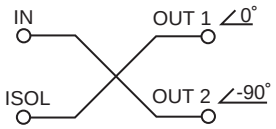


FIG.2 SERIES QH



Type SMA Model No.	Type* N Model No.	Freq. Range GHz	Nominal Coupling dB	Max. Dev From Nominal Coupling dB	Max. Ins. Loss dB	Min.* Isol. dB	Max.* VSWR	Min. Power** Capability Peak kW	Min. Power** Capability Avg. Watts	Phase Bal. Deg.	Mechanical Outlines— Fig. 2 Series QH A in [mm]	B in [mm]	C in [mm]	D in [mm]	E in [mm]	F in [mm]	Mechanical Outlines— Fig. 1 Series QH-N A in [mm]	B in [mm]	C in [mm]
QH-17	QH-17N	0.025–0.05	3.0+0.15/–0	±0.40	0.15	22	1.15	10	75	±1.0	3.00 [76,2]	2.00 [50,8]	0.55 [13,97]	1.900 [48,26]	1.800 [45,7]	0.25 [6,5]	3.50 [88,9]	2.00 [50,8]	1.750 [44,45]
QH-20	QH-20N	0.05–0.10	3.0+0.15/–0	±0.40	0.15	22	1.15	10	75	±1.0	2.90 [73,7]	1.90 [48,26]	0.55 [13,97]	1.800 [45,7]	1.700 [43,18]	0.25 [6,4]	3.40 [86,36]	1.90 [48,26]	1.650 [41,91]
QH-21	QH-21N	0.1–0.2	3.0+0.15/–0	±0.40	0.15	22	1.15	10	75	±1.0	2.15 [54,61]	1.60 [40,64]	1.08 [27,43]	—	1.400 [35,56]	0.25 [6,4]	2.65 [67,31]	1.60 [40,64]	1.350 [34,29]
QH-23	QH-23N	0.2–0.4	3.0+0.15/–0	±0.40	0.15	22	1.15	10	75	±1.0	1.90 [48,26]	1.25 [31,75]	0.95 [24,13]	—	1.050 [26,67]	0.25 [6,4]	2.40 [61,0]	1.25 [31,75]	1.000 [25,4]
QH-26	QH-26N	0.25–0.5	3.0+0.15/–0	±0.40	0.15	22	1.15	10	75	±1.0	1.65 [41,91]	1.15 [29,21]	0.82 [30,83]	—	0.950 [24,13]	0.25 [6,4]	2.15 [54,61]	1.15 [29,21]	0.900 [22,86]
QH-28	QH-28N	0.5–1.0	3.0+0.15/–0	±0.40	0.15	22	1.15	10	75	±1.0	2.80 [71,12]	0.50 [12,7]	0.55 [13,97]	1.700 [48,13]	0.300 [7,6]	0.20 [5,1]	3.40 [61,0]	1.00 [25,4]	0.750 [19,1]
QH-31	QH-31N	1.0–2.0	3.0+0.15/–0	±0.40	0.15	22	1.20	10	75	±2.0	1.65 [41,91]	0.50 [12,7]	0.82 [20,83]	—	0.300 [7,6]	0.20 [5,1]	2.25 [57,15]	0.75 [19,1]	0.500 [12,7]
QH-33	QH-33N	1.5–3.0	3.0+0.20/–0	±0.40	0.20	22	1.20	10	75	±2.5	1.25 [31,75]	0.50 [12,7]	0.63 [16,0]	—	0.300 [7,6]	0.20 [5,1]	2.25 [57,15]	0.75 [19,1]	0.500 [12,7]
QH-36	QH-36N	2.0–4.0	3.0+0.20/–0	±0.45	0.20	22	1.20	7	60	±2.5	1.00 [15,4]	0.50 [12,7]	0.50 [12,7]	—	0.300 [7,6]	0.20 [5,1]	2.25 [57,15]	0.75 [19,1]	0.500 [12,7]
QH-43	QH-43N	2.6–5.2	3.0+0.20/–0	±0.45	0.20	20	1.25	7	60	±3.0	1.00 [15,4]	0.50 [12,7]	0.50 [12,7]	—	0.300 [7,6]	0.20 [5,1]	2.25 [57,15]	0.75 [19,1]	0.500 [12,7]
QH-45	QH-45N	4.0–8.0	3.0+0.25/–0	±0.50	0.25	20	1.30	7	50	±3.0	0.90 [22,86]	0.50 [12,7]	0.45 1.14	—	0.300 [7,6]	0.20 [5,1]	2.25 [57,15]	0.75 [19,1]	0.500 [12,7]
QH-51	—	7.0–12.4	3.0+0.35/–0	±0.50	0.35	17	1.35	6	50	±4.0	0.95 [24,13]	0.50 [12,7]	0.48 [12.2]	—	0.300 [7,6]	0.20 [5,1]	—		
QH-57	—	8.0–16.0	3.0+0.50/–0	±0.60	0.50	16	1.45	5	50	±5.0	0.95 [24,13]	0.50 [12,7]	0.48 [12.2]	—	0.300 [7,6]	0.20 [5,1]	—		
QH-58	—	12.0–18.0	3.0+0.50/–0	±0.60	0.50	16	1.50	5	50	±5.0	0.95 [24,13]	0.50 [12,7]	0.48 [12.2]	—	0.300 [7,6]	0.20 [5,1]	—		
MULTI-OCTAVE BANDS																			
QH-55	QH-55N	0.5–2.0	3.0±0.6/–0	±0.60	0.60	18	1.40	5	50	±5.0	3.50 [88,9]	0.50 [12,7]	1.75 [44,45]	—	0.300 [7,6]	0.25 [6,4]	4.00 [101,6]	0.75 [19,1]	0.500 [12,7]
QH-19	—	2.0–8.2	3.0±0.7/–0	±0.70	0.70	16	1.50	5	50	±6.0	1.70 [43,18]	0.50 [12,7]	0.85 [21,6]	—	0.300 [7,6]	0.20 [5,1]	—		
QH-88	—	8.0–18.0	3.0±0.7/–0	±0.70	0.70	16	1.50	5	30	±7.0	0.95 [24,13]	0.50 [12,7]	0.48 [12,2]	—	0.300 [7,6]	0.20 [5,1]	—		

* Units with Type N connectors: up to 4GHz multiply VSWR's by 1.05 and subtract 2 dB from isolation. Above 4GHz multiply VSWR's by 1.10 and subtract 3dB from isolation.

** SMA= 3 KW peak maximum

KEY: Inches[Millimeters] .XX ±.03 .XXX ±.010 [.X ±0.8 .XX ±0.25]

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ISO 9001 REGISTERED FIRM