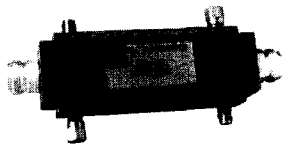
High Power Single and Dual Directional Couplers



RLC Electronics' high power directional couplers offer accurate coupling, low insertion loss and high directivity in a compact package. The standard units are optimized for 2 octave bandwidths and are available with a choice of coupling values.

These units are ideal for sampling forward and reflected power with a negligible effect on the transmission line and very low intermodulation products.

Specifications

CHP-1040 [1-2-3-4]
CHP-2080 [1-2-3-4]

Model Number	Frequency Range (GHz)	Directivity (Min.)	Primary VSWR (Max.)	Secondary VSWR (Max.)	Insertion Loss (Max.)
CHP–1040 –	1.0 GHz TO 4.0 GHz	23dB	1.20	1.30	.15dB
CHP–2080 –	2.0 GHz TO 8.0 GHz	21dB	1.25	1.30	.20dB

Impedance: 50 ohms
Power: 500 watts avg., 10kw peak
Coupling: (NOM.): 30, 40 or 50dB
Accuracy (includes frequency variation): ±1.0dB

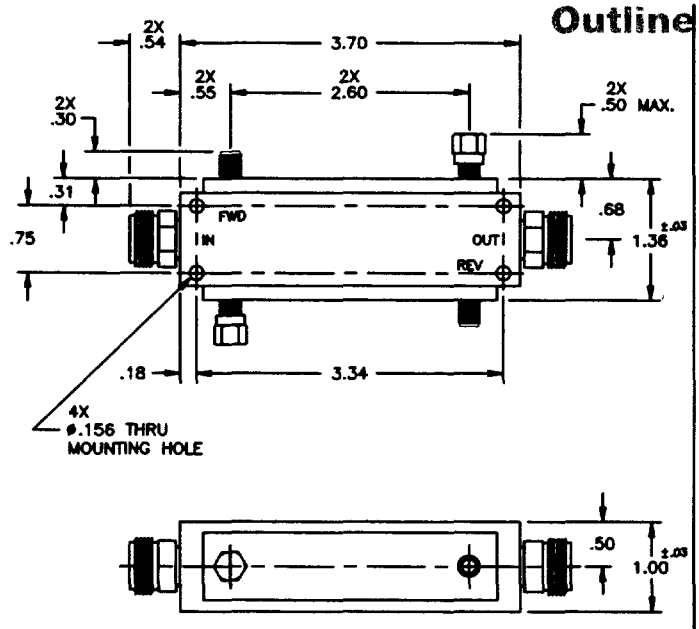
Connectors: Main line – Type 'N' (male or female) OR 7/8" EIA
Secondary Line – 'SMA' female

To designate the switch desired use:

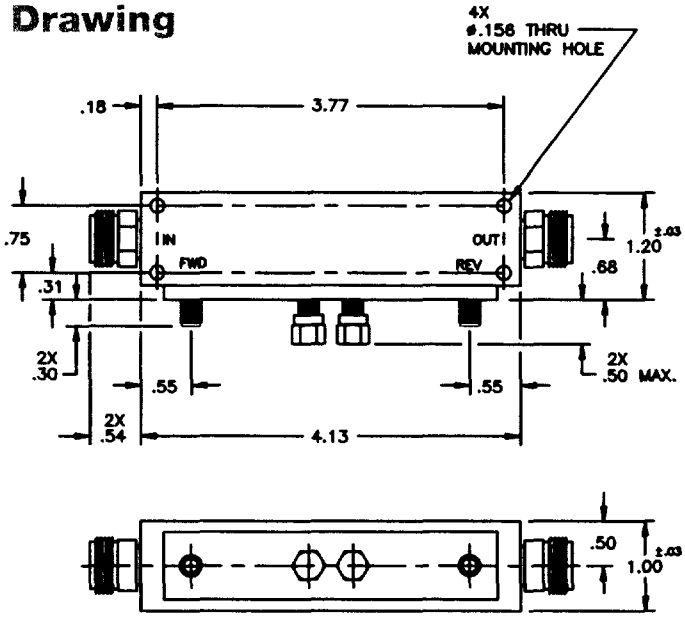
(1) S for single, D for dual
(2) Forward coupling value 30, 40 or 50dB
(3) Reverse coupling value 30, 40 or 50dB (dual only)
(4) Main line connectors (input/output)
MM (male/male), FF (female/female),
MF (male/female), FM (female/male)
EIA for 7/8" EIA connectors

Example: CHP–2080–D–40–40–FF is a 2.0–8.0 GHz coupler with 'N' female connectors on the main line and 40dB forward and reverse coupling

Outline Drawing



CHP–1040–D–40–40–FF



CHP–2080–D–40–40–FF

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