

SPECIFICATION SHEET
JFW MODEL 50C-081-XX
DIRECTIONAL COUPLER

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Frequency Range 1-40 GHz

Impedance 50 Ohms nominal

VSWR 1.8:1 maximum
< 1.6:1 typical

Coupling Values 10 dB \pm 1.5 dB
20 dB \pm 1.5 dB
30 dB \pm 1.5 dB

Coupling Flatness 10 dB: \pm 1.0 dB maximum
20 dB: \pm 1.0 dB maximum
30 dB: \pm 1.0 dB maximum

Insertion Loss (including Coupling Loss) 10 dB: 3.2 dB maximum
2.5 dB typical
20 dB: 2.4 dB maximum
2.0 dB typical
30dB: 2.2 dB maximum
1.6 dB typical

Directivity 12 dB minimum 1-18 GHz
10 dB minimum 18-40 GHz
14 dB typical @ 18 GHz
12 dB typical @ 40 GHz

RF Input Power 20 Watts average

RF Connector 2.92mm female

Temperature Range -45°C to +85°C (operating)
-55°C to +125°C (storage)

Physical Size See outline drawing 092-10297

ECR/ECN #	DATE	REV	APPR / DATE	ECR/ECN #	DATE	REV	APPR / DATE
	05/22/2024		TRS 05/22/2024				