

**SPECIFICATION SHEET**  
**JFW MODEL 50C-070-XX**  
**DIRECTIONAL COUPLER**

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Frequency Range 0.5-18 GHz

Impedance 50 Ohms nominal

VSWR 1.6:1 maximum  
1.3:1 typical 0.5-6 GHz  
1.4:1 typical 6-18 GHz

Coupling Values 10 dB  $\pm$  1.0 dB  
20 dB  $\pm$  1.5 dB  
30 dB  $\pm$  1.5 dB

Coupling Flatness  $\pm$  1.0 dB maximum  
 $\pm$  0.7 dB typical

Insertion Loss (including Coupling Loss) 10 dB: 1.8 dB maximum  
1.5 dB typical  
20 dB: 1.3 dB maximum  
1.0 dB typical  
30 dB: 1.2 dB maximum  
0.8 dB typical

Directivity 12 dB minimum 0.5-6 GHz  
10 dB minimum 6-18 GHz  
14 dB typical 0.5-6 GHz  
12 dB typical 6-18 GHz

RF Input Power 50 Watts average

RF Connector SMA female

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

Physical Size See outline drawing 092-9190

| ECR/ECN # | DATE       | REV | APPR / DATE    | ECR/ECN # | DATE | REV | APPR / DATE |
|-----------|------------|-----|----------------|-----------|------|-----|-------------|
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