

**SPECIFICATION SHEET****JFW MODEL 50HFFA-XXX-10/18SMA****FIXED ATTENUATOR**

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Frequency Range DC-18 GHz

Impedance 50 Ohms nominal

Attenuation Values 1 through 40 dB (any 1 dB increment)

VSWR  
1.5:1 maximum  
1.1:1 typical @ 6 GHz  
1.2:1 typical @ 18 GHz

Attenuation Accuracy  
1-10 dB:  $\pm 0.8$  dB maximum /  $\pm 0.5$  typical  
11-20 dB:  $\pm 0.9$  dB maximum /  $\pm 0.4$  typical  
21-30 dB:  $\pm 1.0$  dB maximum /  $\pm 0.6$  typical  
31-40 dB:  $\pm 1.2$  dB maximum /  $\pm 0.7$  typical

RF Input Power  
(bi-directional) 10 Watts average @ +25°C  
(derate linearly to 0 Watts @ +125°C)

Peak Power 500 Watts  
(5 microsecond pulse, 0.1% duty cycle)

RF Connector SMA male/female or SMA female/female

Temperature Range -55°C to +125°C

Outline Drawing Numbers 092-10091 (SMA male/female)  
092-10091-01 (SMA female/female)

**Example models numbers:**

50HFFA-003-10/18SMA 3dB, SMA male/female  
50HFFA-006-10/18SMA 6dB, SMA male/female  
50HFFA-010-10/18SMA 10dB, SMA male/female  
50HFFA-020-10/18SMA 20dB, SMA male/female

50HFFA-030-10/18SMA F/F 30dB, SMA female/female  
50HFFA-040-10/18SMA F/F 40dB, SMA female/female

ECR/ECN #	DATE	REV	APPR / DATE	ECR/ECN #	DATE	REV	APPR / DATE
	07/11/2023		TRS 07/11/2023				
33762	11/20/2024	A	TRS 11/20/2024				
33983	02/24/2025	B	TRS 02/24/2025				