

- ◆ Increases Load Power Capability
- ◆ Lowers Power by up to 100W
- ◆ Adjusts Power for 100W components
- ◆ Very Low PIM
- ◆ Up to 200W average Input Power
- ◆ Low VSWR
- ◆ Intimate cable contact for good heat dissipation
- ◆ RoHS compliant
- ◆ For Indoor applications



Microlab FP-10 series Cable Attenuators are intended for wireless applications, requiring modest power reduction while maintaining extremely low PIM, (Passive Intermodulation).

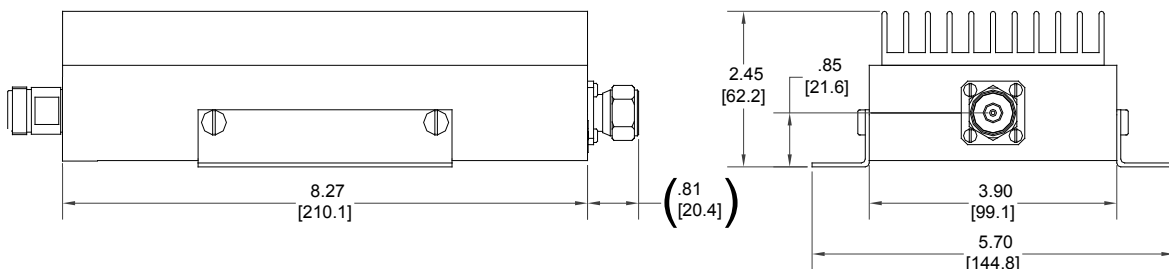
A typical application is to dissipate 100W of power so the signal may be fed directly to components rated at 100W max, such as a Low PIM Termination. This power increase might be required to terminate the unused port of a Hybrid Coupler when combining two 200W signals in the same band.

The Cable Attenuator requires a finned heat sink to dissipate the heat, similar to that found on resistive attenuators and similarly assumes an ambient temperature up to +55°C.

Frequency:	698 - 2700 MHz
Input VSWR:	<1.15:1 for FP-xxN (N type) <1.25:1 for FP-xxD (7-16) <1.15:1 for FP-xxE (4.3-10)
PIM:	-161 dBc, tested using with 2x 20W tones of 1805 & 1880 MHz at 25°C
Dissipation:	100W maximum *Derate -1.2%/°C above 55°C
Environment:	-35 to +55°C ambient,
Surface Temp:	+90°C max. (per IEC 60950)
Impedance:	50Ω nom.
Housing Finish:	Black paint on aluminum
Connectors:	N, 7-16 or 4.3-10 (m-f) Triplate

Model Number/Conn.	Nominal Attenuation & Max Input Power at Frequency, MHz								Weight lbs. (kg)	
	N	7/16	4.3-10	700	850	960	1850	2100		2600
<b>FP-12N</b>	<b>FP-12D</b>	<b>FP-12E</b>	1.3	1.4	1.5	2.2	2.3	2.6		
% Power, In:Out			74%	72%	71%	63%	59%	55%	5.85 (2.66)	
Power In for 100W out:			135	138	141	166	170	182		
<b>FP-14D</b>	<b>FP-14D</b>	<b>FP-14E</b>	1.9	2.1	2.2	3.2	3.5	3.9		
% Power, In:Out			65%	62%	63%	48%	45%	41%	6.00 (2.73)	
Power In for 100W out:			155	163	166	200 <sup>1</sup>	190 <sup>1</sup>	170 <sup>1</sup>		

<sup>1</sup>Max Power due to dissipation limit



Dimension in inches [mm]

Note: Specifications are subject to change without prior notification.

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