Low PIM Cable Attenuator, FP-10 ser.

Indoor/Outdoor Cable Attenuator for High Powers
698 - 2,700 MHz, N or 7-16
Rev. A

- 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
- IP67 and RoHS compliant
- For Indoor/Outdoor applications

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

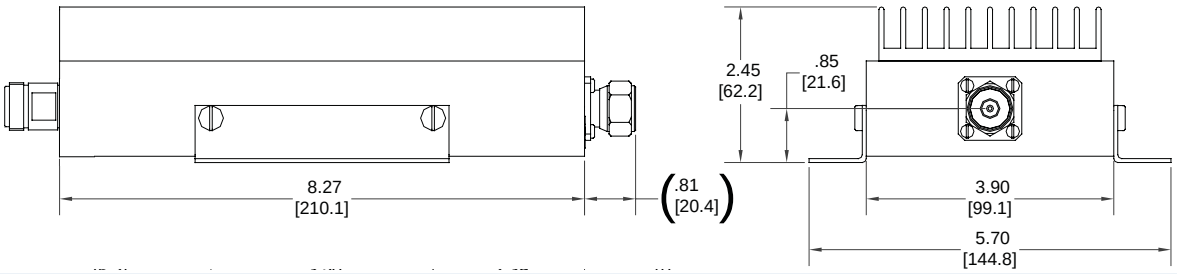
A typical application is to dissipate 100W of power so the signal may be fed directly to components rated at 100W max, such as a Low PIM Termination. This power increase might be required to terminate the unused port of a Hybrid Coupler when combining two 200W signals in the same band.

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. (01/13)

Frequency:	698 - 2700 MHz
Input VSWR:	<1.15:1 for FP-xxN (N conn) <1.25:1 for FP-xxD (7-16 conn)
PIM:	-165 dBc typ; <-160 dBc measured with 2 x 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, IP67
Surface Temp:	+90°C max. (per IEC 60950)
Impedance:	50Ω nom.
Housing Finish:	Black paint on aluminum
Connectors:	N or 7-16 DIN (m-f) Triplate

Model Number/Conn. 7-16	N conn.	Nominal Attenuation & Max Input Power at Frequency, MHz 700	850	960	1850	2100	2600	Weight lbs. (kg)
FP-12D	**FP-12N**	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	
FP-14D	**FP-14N**	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[1]	190[1]	170[1]	

[1]Max Power due to dissipation limit



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