

- ◆ 80W - 133W Average Power
- ◆ Exceptional Low PIM
- ◆ Conventional end to end input-output configuration
- ◆ Standard Values 3, 6, 10, 15, 20 & 30 dB
- ◆ High Reliability
- ◆ RoHS Compliant
- ◆ Multiple Connector Options  
N, 7-16, 4.1-9.5 and 4.3-10
- ◆ Delivery from stock



**FZ-06D, 6 dB**  
Low PIM Attenuator



Microlab FZ series of fixed Coaxial Attenuators is designed for high power wireless applications where low, guaranteed PIM performance is critical. Standard models, except 3 dB, are unidirectional with a conventional male input feeding to a female output on the opposite face of the attenuators with no through DC path.

The 3 dB Attenuator has all female connectors, and also provides DC continuity by selecting input B, while selecting input A, the path is DC isolated. The unused port must be terminated with the supplied 2W termination. Other connector configurations are available to special order.

The design is exceptionally rugged, and negligibly affected by changes in ambient temperature. Low PIM Attenuators with power ratings 10W are available as the FY series.

Frequency Range: 698 - 2700 MHz  
Impedance: 50Ω nominal  
PIM (Intermod): -161 dBc (+43dBm x2)  
Peak Power: 3 kW  
Environment: -35° to +75°C\*  
Finish: RoHS Compliant  
Body: Black Paint  
Connectors: Triplate  
Brackets: Supplied  
2W Termination: Supplied with 3dB model  
Weight, Body Style:  
A: 6.6 lbs (3.0 kg) nom  
B: 7.2 lbs (3.5 kg) nom  
\*Derate max power by -1.2%/°C above 55°C

Atten. Value	Model/Connector								Attenuation Accuracy	VSWR In/Out	Power Rating	Body Style
	N (m-f) (f-f)		7/16 DIN (m-f) (f-f)		4.1-9.5 DIN† (m-f) (f-f)		4.3-10 (m-f) (f-f)					
<b>3 dB</b>	-	FZ-03FN	-	FZ-03FD	-	FZ-03FC	-	FZ-03FE	3 ± 0.5 dB	<1.20:1	80W	A
<b>6 dB</b>	FZ-06N	FZ-06FN*	FZ-06D	FZ-06FD*	FZ-06C	-	FZ-06E	-	6.2 ± 1 dB	<1.25:1	133W	B
<b>10 dB</b>	FZ-10N	FZ-10FN*	FZ-10D	FZ-10FD*	FZ-10C	-	FZ-10E	-	10 ± 1 dB	<1.25:1	110W	B
<b>15 dB</b>	FZ-15N	FZ-15FN*	FZ-15D	FZ-15FD*	FZ-15C	-	FZ-15E	-	15 ± 1 dB	<1.25:1	100W	B
<b>20 dB</b>	FZ-20N	FZ-20FN*	FZ-20D	FZ-20FD*	FZ-20C	-	FZ-20E	-	20 ± 1 dB	<1.25:1	100W	B
<b>30 dB</b>	FZ-30N	FZ-30FN*	FZ-30D	FZ-30FD*	FZ-30C	-	FZ-30E	-	30 ± 1.3 dB	<1.25:1	100W	B

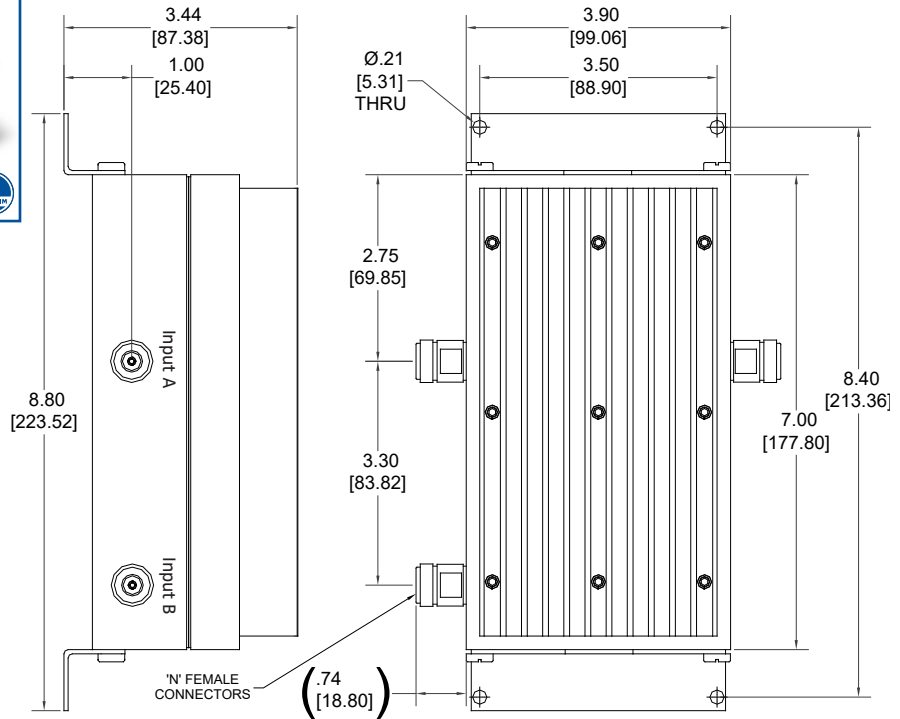
\*Manufactured to order

†Mini-DIN connectors

Note: Specifications are subject to change without prior notification.

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## Outline A, (3 dB Attenuator, FZ-03FN)



### DC Path:

For a DC path through the 3 dB Attenuator connect signal to Input B, and apply supplied 2W termination to Input A. For DC isolation use input A and terminate Input B.

## Outline B, shown for 7-16 DIN

