

Proposed Redesign

- ◆ 100W - 150W Average Power
- ◆ Exceptional <-160 dBc PIM
- ◆ Conventional end to end input-output configuration
- ◆ Standard Values to 30 dB
- ◆ High Reliability
- ◆ RoHS Compliant
- ◆ IP67 for Indoor and Outdoor
- ◆ N or 7-16 DIN Connectors
- ◆ Delivery from stock



Microlab AZ series of fixed Coaxial Attenuators is designed for high power wireless applications where low, guaranteed PIM performance is critical. Standard model is unidirectional with a conventional male input feeding to a female output on the opposite face of the attenuators. Other connector configurations are available to special order.

Units are sealed to meet IP67 for indoor or outdoor applications. The design is exceptionally rugged, and negligibly affected by changes in ambient temperature. Low PIM Attenuators with medium power ratings from 30 to 45W are available as the AY series. A 160W 3 dB attenuator is available using CT-84 series. (02/11)

Frequency Range, MHz [†] :	698-1400 & 1650-2700
Impedance:	50Ω nominal
PIM (Intermod):	<-160 dBc (+43dBm x2) <-165 dBc typical
Peak Power:	3 kW
Environment:	-35° to +65°C*, IP67
Finish:	RoHS Compliant
Body:	Passivated aluminum
Connectors:	Triplate, N or 7-16 DIN
Weight, nominal:	110 oz, (3.1 kg)

*Derate max power by -0.9%/°C above 25°C

†Unit non operational in range 1.40 -1.65 GHz

Attenuator Value*, dB	Model/Connector N (m-f)	Model/Connector 7-16 (m-f)	Attenuation Accuracy	Flatness	Input VSWR	Input Power Avg. max.	Weight nom, lb (kg)	Outline Style
1.0	AZ-01N	AZ-01D	±0.2 dB	±0.2 dB	<1.30:1	400W		A
1.8	AZ-02N	AZ-01D	±0.2 dB	±0.2 dB	<1.30:1	300W		A
3.0	see CT series data sheet		±0.3 dB	±0.4 dB	<1.20:1	200W		see CT series
4.8	AZ-05N	AZ-05D	±0.7 dB	±0.5 dB	<1.30:1 [†]	150W		B
6.1	AZ-06N	AZ-06D	±0.7 dB	±0.5 dB	<1.30:1	133W		B
10.4	AZ-10N	AZ-10D	±0.8 dB	±0.5 dB	<1.20:1	110W		B
15.1	AZ-15N	AZ-15D	±1.0 dB	±0.6 dB	<1.20:1	100W		B
20.0	AZ-20N	AZ-20D	±1.2 dB	±0.6 dB	<1.20:1	100W		B
30.0	AZ-30N	AZ-30D	±1.5 dB	±0.8 dB	<1.20:1	100W		B

*7, 8.2, 13.2 dB and other values available to special order †<1.40:1 above 2,500 MHz

Outline B, shown for 7-16 DIN

