



Waveguide Manual Attenuator

Features

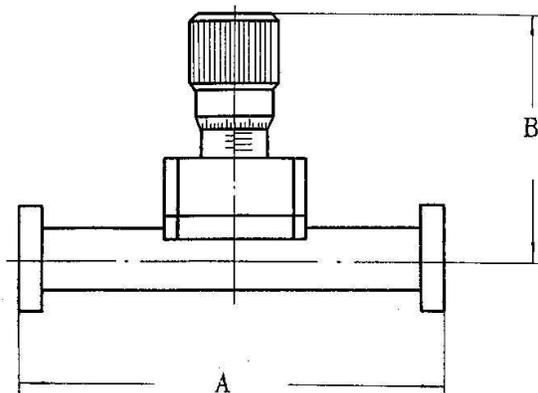


- Wide Band Operation, flat response
- Frequency up to 110GHz upon request
 - High Power Handle Capability
- Low Insertion Loss and High dynamic range
 - Temperature Range -40°C~+85°C
- Customization available upon request

The **RF-Lambda** offers a range of Infinitely Variable Attenuators as well as the range of Laboratory Standard Precision Variable Attenuators. All items are of compact design and are manufactured from Brass as standard although Copper and Aluminum versions are available upon request. The attenuators are manufactured to the highest quality standards. Attenuators are manufactured with the full range of International Flange Styles as shown in The Waveguide Solution Flange Catalogue and can be offered with alternative plated finishes on request. All The Waveguide Solution Attenuators are offered with attractive, hardwearing, epoxy paint finish.

Variable Attenuators based upon the same construction as the Low Power Fixed Attenuators, the metalized glass fiber reinforced PTFE resistive card vane is positioned in the Waveguide using a backlash free, spring controlled piston, precisely fitted in a machined housing to give a high degree of mechanical stability. The attenuation is varied by means of a knurled finger-control knob, and a locking screw is provided for repetitive measurements, or, in the case of the variable precision devices, the attenuation is varied by means of a standard micrometer drive. For the WG22 version, a guillotine principle is used for the vane insertion into the broad wall of the waveguide. Movement of the vane is achieved by the means of an eccentric cam attached to the control knob.

Variable Attenuator



Environment specifications	
Operation Temp.	-40°C~+85°C
Storage Temp.	-55°C~+125°C
Altitude	42000 ft
Vibration	10g rms (15 degree 2KHz)
Humidity	100% RH at 35c, 95%RH at 40 deg c
Shock	20G for 11msc
Cooling	FAN required for long time High power operation



Part Number	WG Type	Low Freq (GHz)	High Freq (GHz)	Attenuation Step (dB)	Attenuation Range (dB)	VSWR (Max:1)	Power (Watts)	A (inch)	B (inch)
RWMAT650D35	WR650	1.12	1.7	Continuous	>35	1.2	5	5.91	2.76
RWMAT430D35	WR430	1.7	2.6	Continuous	>35	1.2	5	5.91	2.76
RWMAT340D35	WR340	2.2	3.3	Continuous	>35	1.2	5	5.91	2.76
RWMAT284D35	WR284	2.6	3.95	Continuous	>35	1.2	5	5.91	2.76
RWMAT229D35	WR229	3.3	4.9	Continuous	>35	1.2	5	5.91	2.76
RWMAT187D35	WR187	3.95	5.85	Continuous	>35	1.2	5	5.91	2.76
RWMAT159D35	WR159	4.9	7.05	Continuous	>35	1.2	5	5.91	2.76
RWMAT137D35	WR137	5.85	8.2	Continuous	>35	1.2	5	5.91	2.76
RWMAT112D35	WR112	7.05	10	Continuous	>35	1.2	5	5.91	2.76
RWMAT90D35	WR90	8.20	12.40	Continuous	>35	1.2	5	5.91	2.76
RWMAT75D35	WR75	10.00	15.00	Continuous	>35	1.2	5	5.12	2.76
RWMAT62D35	WR62	12.40	18.00	Continuous	>35	1.2	5	4.33	2.56
RWMAT42D35	WR42	18.00	26.50	Continuous	>35	1.2	5	2.95	2.36
RWMAT34D35	WR34	21.70	33.00	Continuous	>35	1.2	2	2.95	2.36
RWMAT28D35	WR28	26.50	40.00	Continuous	>35	1.2	2	2.56	2.17
RWMAT22D35	WR22	33.00	50.00	Continuous	>35	1.2	2	2.36	2.17
RWMAT19D35	WR19	40.00	60.00	Continuous	>35	1.2	2	2.36	2.17
RWMAT15D35	WR15	49.80	75.80	Continuous	>35	1.2	1	1.77	1.57
RWMAT12D35	WR12	60.50	91.90	Continuous	>35	1.2	1	1.38	1.38
RWMAT10D35	WR10	73.80	112.00	Continuous	>35	1.2	1	1.18	1.18
RWMAT8D35	WR8	92.20	140.00	Continuous	>35	1.2	1	0.98	0.98

