



WR15 WR12 WR10 **WR08** WR06 WR05 WR03 WR02.2

08MA30
WR08 Mechanical Adjustable Attenuator
90 to 140 GHz

DESCRIPTION

The 08MA30 is a full WR08 waveguide band (90 to 140 GHz) adjustable attenuator. Patented (US7952450B2) technology assures a monotonic attenuation function in its attenuation adjustment across the entire operating frequency range. In addition, RF leakage is mitigated at higher attenuation values.



HIGHLIGHTS

- Patented Technology
- Low Insertion Loss – typical 0.4 dB
- Minimum 30 dB Adjustable Range
- Accurate and Repeatable Settings
- Full continuous waveguide band coverage
- RoHS compliant

APPLICATIONS

- General Purpose Manual Power Adjustment
- Test and Instrumentation
- System & Subsystem

ELECTRICAL AND PERFORMANCE SPECIFICATIONS (+25°C)



Electrical Characteristics ¹	MIN	TYP	MAX
System Operating Frequency (GHz)	90	--	140
Insertion Loss (dB)	--	0.4	0.7
Attenuation Range (dB)	30	--	--
Return Loss (dB)	--	25	21
Power Handling (W)	--	--	0.3
Operating Temperature Range	+20°C	+25°C	+30°C
Storage Temperature Range	0°C	--	+70°C

Module Characteristics ¹	Description
Input Port & Output Interface ²	WR-08
Mechanical Adjustment Length ³	0.25” – 0.3”
Size (L x W x H) ³	1.20”x 0.75” x 2.27” (30.5 mm x 19.1 mm x 57.7 mm)
Weight	≤ 2.5 oz (71 g)

¹ Specifications are typical and subject to change without notice

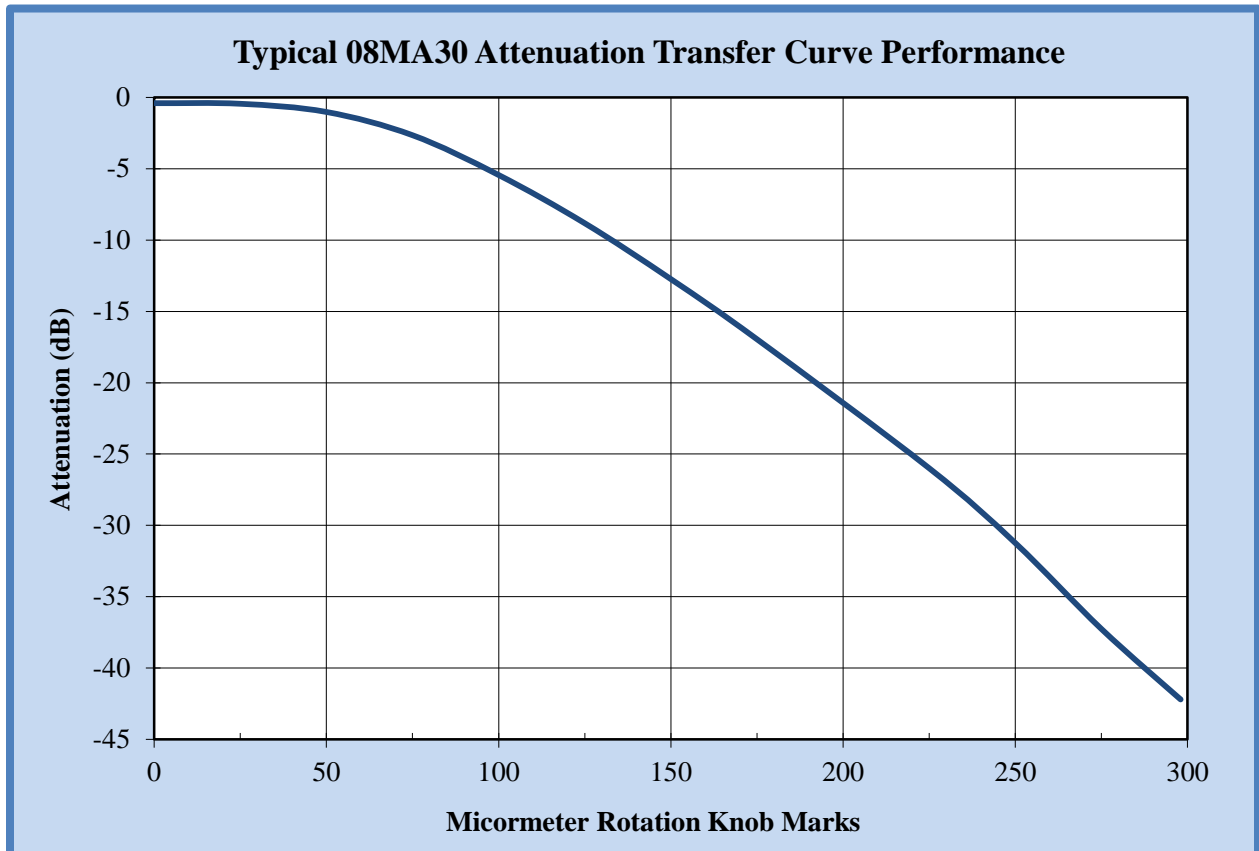
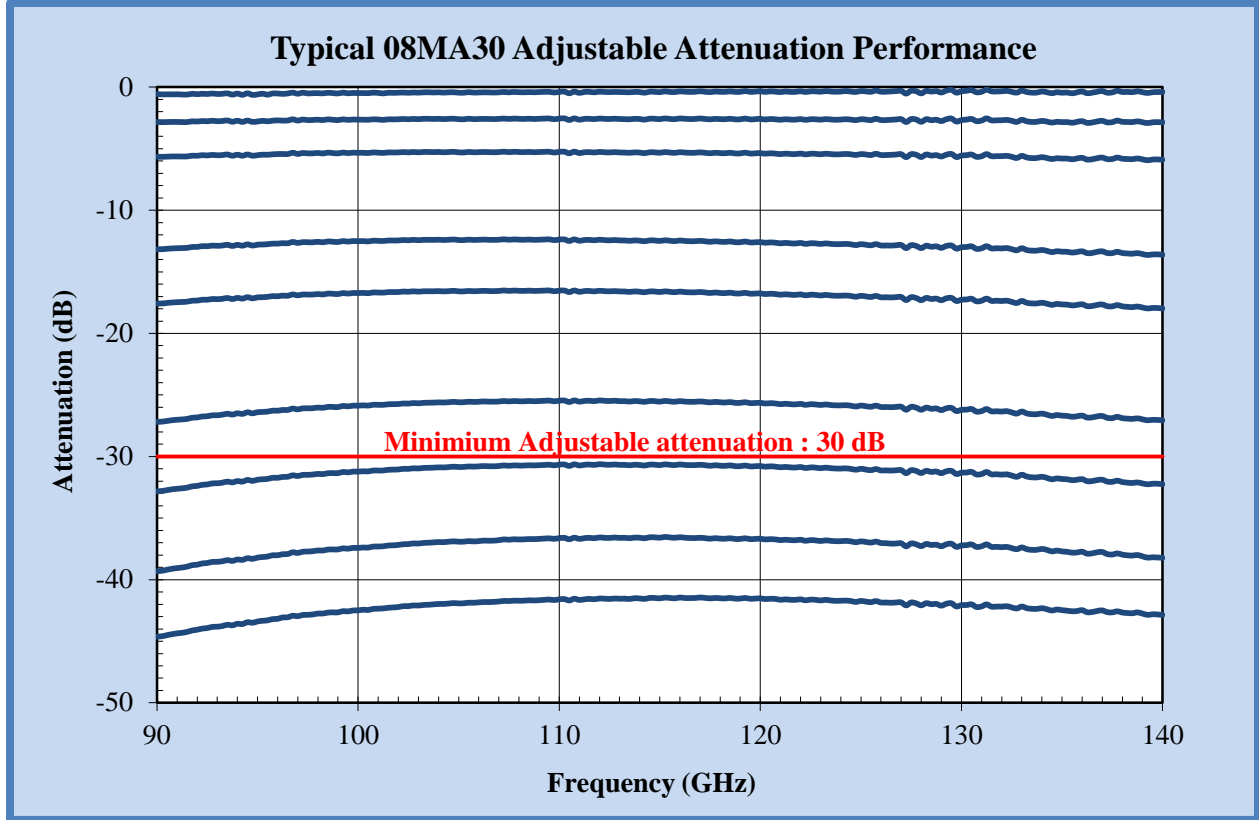
² Test Port Flange Configuration is compatible with MIL-DTL-3922/67E (UG387/UM)

³ Nominal adjustment heights from “0” setting. **DAMAGE** may occur if rotate micrometer setting beyond maximum marking listed in the test datasheet.



TYPICAL PERFORMANCE

The following typical performance is possible with the 08MA30 Series Mechanical Adjustable Attenuator.





ORDER INFORMATION

Model Number	Description
08MA30	WR-08 30 dB Mechanical Adjustable Attenuator Accessories: 8 ex. #4-40 Waveguide Screws
Option EF	

MECHANICAL DIMENSIONS (If necessary, contact OML for more detailed drawings)

