

High precision waveguide Adjustable Attenuator

536x is a family of variable passive waveguide attenuators based on ACST high-precision manufacturing technology.

Covers range of frequencies **from 50 to 500 GHz**. Exhibits **flat insertion loss** response across the frequency bands, with possible attenuation values up to 25dB.



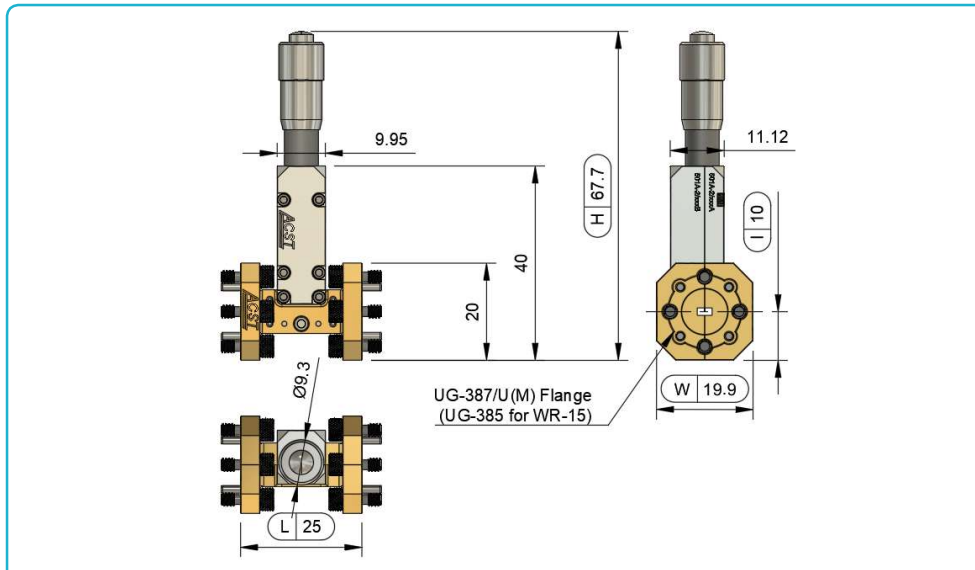
Technical Specification

PRODUCT	536R	536S	536A	536B	536C	536D	536E	536F	536G	536H
Band	WR-15	WR-12	WR-10	WR-8	WR-6.5	WR-5.1	WR-4.3	WR-3.4	WR-2.8	WR-2.2
Frequency Min [GHz]	50	60	75	90	110	140	170	220	260	330
Frequency Max [GHz]	75	90	110	140	170	220	260	330	400	500
Device width [mm, ±0.05] (W)	20									
Device height [mm] (H)	68 (variable)									
Device length [mm, ±0.05] (L)	25									
Input Port Height [mm] (I)	10									
Max. Absorption (3dB) [mW]	400		200			100		50		
Max. Absorption (> 10dB) [mW]	100		50			10		5		
Insertion loss (S12) [at 0 dB] *	0.7 ± 0.2		1 ± 0.2			1.2 ± 0.2		1.5 ± 0.2		
Typical Attenuation [dB]	1, 3, 6, ... ±2									
Material and Finish	Gold plated brass, Aluminium, Steel									

* Custom maximum attenuation values available upon request

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Outline Dimensions



Notes

> All plotted data represent typical values. Actual performance may vary from unit to unit.

Caution

> Absolute maximum ratings should not be used under normal operating conditions. Exceeding maximum ratings may lead to permanent failure.

> Any foreign body inserted into the waveguide will diminish performance and may cause damage to instruments.

Typical Performance

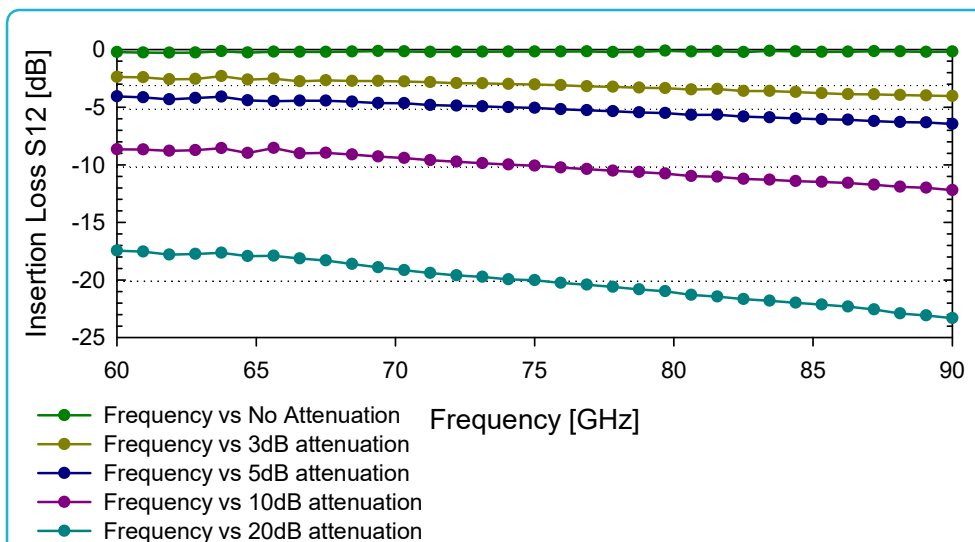


Figure 1: Example performance of a variable attenuator from 536x family across the frequency band

Order information

- Please indicate product name and type.
- Please indicate desired optional features



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