

AT-FAT20-08HP – High Power Waveguide Fixed Attenuator

90–140 GHz (Full F-Band) · 20 dB · 5 W CW · WR-08 · Product Datasheet



KEY SPECIFICATIONS

Parameter	Min	Typ	Max
Frequency (GHz)	–	90–140	–
Attenuation (dB)	–	20	–
Attenuation Flatness (dB)	–	±1.5	–
Return Loss (dB)	–	-20	–
Power Handling (W CW)	–	–	5
RF Input Power (dBm, abs.)	–	–	+37
Operating Temp. (°C)	-40	–	+85

STANDARD MODELS

Standard WR-08 models (other values to 500 GHz on request): **AT-FAT06-08HP** 6 dB · **AT-FAT10-08HP** 10 dB · **AT-FAT20-08HP** 20 dB · **AT-FAT30-08HP** 30 dB

DETAILED SPECIFICATIONS

Electrical / RF	Mechanical & Environmental
<ul style="list-style-type: none"> • Frequency 90–140 GHz (Full F-Band) • Attenuation 20 dB • Attenuation Flatness ±1.5 dB • Return Loss -20 dB • Power Handling 5 W CW • RF Input Power (abs. max) +37 dBm • Spec Temperature 25 °C 	<ul style="list-style-type: none"> • Waveguide WR-08 • Flange UG-387/U-M (Anti-Cocking) • Case Material Copper, gold plated • Weight 100 g • Size approx. 91.4 x 24 x 21 mm • Operating Temp. -40 to +85 °C • Storage Temp. -55 to +100 °C

APPLICATIONS

<p>Test Equipment High-power attenuation in F-band test and measurement setups</p>	<p>ROF (RF over Fiber) Level setting in RF-over-fiber links</p>
<p>Radar Systems Fixed attenuation in mmWave radar front-ends</p>	<p>Telecom High-frequency communication systems in the 90–140 GHz band</p>