

E-Band High Power Fixed Attenuator

WR-12/60.5-91.9GHz/20 $\pm$ 1dB Attenuation

Model: TLFA-20-WR12-40

TLFA-20-WR12-40 is a 20 dB high power fixed attenuator that is used in millimeterwave systems and operates from 60.5 to 91.9 GHz. The input and output port configuration offers an inline structure with WR-12 waveguides. Other attenuation values are available under different model numbers as TLFA-XX-WR12-40, where XX is the desired attenuation value.

Features:

- Full Band Coverage
- 10/20/30dB Available
- Good attenuation flatness
- Good Return Loss

Applications:

- Test Equipment
- RF Over Fiber
- Communication Systems
- Radar Systems

Electrical Characteristics:

Parameter	Min	Typ	Max	Units
Frequency range	60.5		91.9	GHz
Attenuation Value		20		dB
Attenuation Flatness		± 1		dB
Attenuation Fluctuation		± 1		dB
VSWR			1.4	:1
Power Handling			10	W

Mechanical Specifications:

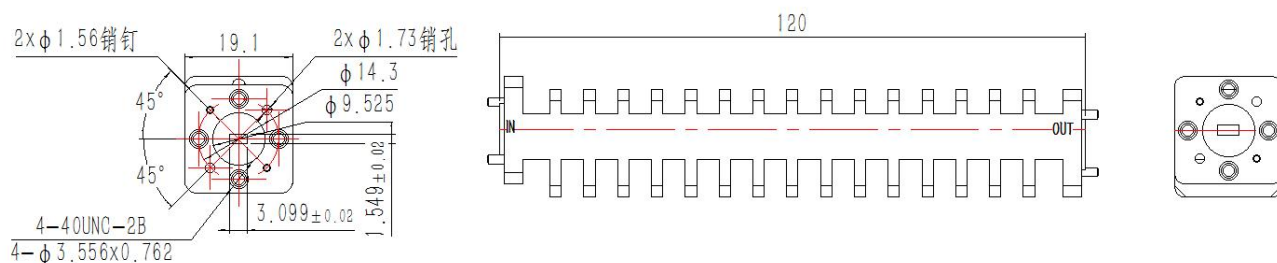
Parameter	Value	Units
Input /Output Connector	WR-12	
Material	Brass	
Finish	Gold Plated, spray ice gray paint	
Size	19.1*19.1*120	mm

Absolute Maximum Ratings:

Parameter	Value
RF Input Power	+40dBm

Outline Drawing:

Unit:mm; Tolerance:±0.1mm



Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature	-10		+65	°C
Non-operating Temperature	-45		+85	°C
Relative humidity		95		%
Altitude	10,000			feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

Base Number	Description	Revision
TLFA-20-WR12-40	WR-12 Waveguide High Power Fixed Attenuators; 60.5-91.9GHz, 20±1dB Attenuation	Rev.1.0