

RF Coaxial Attenuator

- ✓ Optional Power: 0.5W-10KW
- ✓ Optional frequency range: DC-40GHz
- ✓ Flatness Attenuation Value and Accuracy
- ✓ Anti-pulse strong anti-burnout ability
- ✓ High reliability and good repeatability



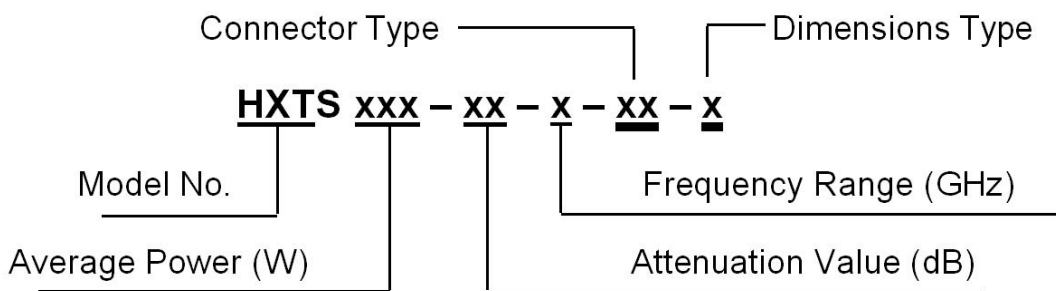
Description

Coaxial fixed attenuators are used in absorbing energy of transmission line, expanding power range and controlling power level, they are also used in accurately measuring power or spectrum of RF microwave transmitters accompany with small power meter, comprehensive tester or spectrum analyzer.

HXTS serial coaxial fixed attenuators feature wide frequency band, low VSWR, flatness attenuation value, excellent capacity in anti-pulse and anti-burnout etc.

In this section, you can find the coaxial attenuators with individual data sheets containing product description, specifications and outline drawings by a quick reference guide.

Order Information



Please confirm with us the main parameters of attenuators such as average power, attenuation value, frequency range, connector type and dimensions Type (if have any), or your special demand.

500W Coaxial Attenuator

Technology Manual

1. Design Features

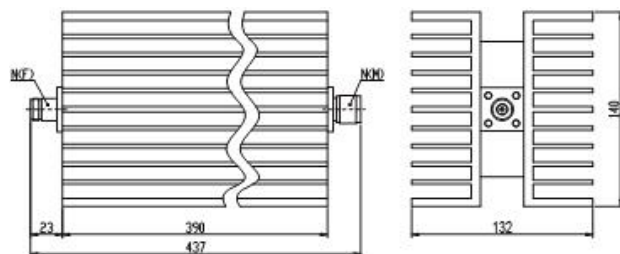
- ◆ HXTS500 series attenuator Frequency DC-4GHz optional◆UWB operating frequency
- ◆ Low standing wave coefficient ◆ High attenuation value accuracy
- ◆ Strong anti-pulse ability

2. Description :

Model Number	Freq. Range	Attenuation Value/Tolerance					VSWR Max
		10dB	20dB	30dB	40dB	50dB	
HXTS500-XX-1	DC-1GHz	±1.0	±1.0	±0.5	±0.5	±0.5	1.2
HXTS500-XX-2	DC-2GHz	±1.5	±1.5	±1.0	±1.0	±1.0	1.25
HXTS500-XX-3	DC-3GHz	±1.75	±1.75	±1.25	±1.25	±1.25	1.35
HXTS500-XX-4	DC-4GHz	±2.0	±2.0	±1.5	±1.5	±1.5	1.5
Average Power: 500W							
Connector Type: N, 7/16(M.F)							
Impedance: 50 Ω							
Temperature Range: -55°C~+125°C							
★:XX:indicates the attenuation value							
★:Average power: 500W corresponds to an ambient temperature of 25°C, when the temperature rises to 125°C, the power decreases linearly to 50W							
★:Peak power: 10KW (5μs pulse width, 2.5% duty cycle)							

3. size:

437*140*132mm(9.3Kg)



Unless otherwise specified, the dimensions and technical indicators correspond to the N-type connector

Remind:Outline Drawing: (Dimensions Unit: mm, Dimensions Tolerance: ±4%)

500W Coaxial Attenuator

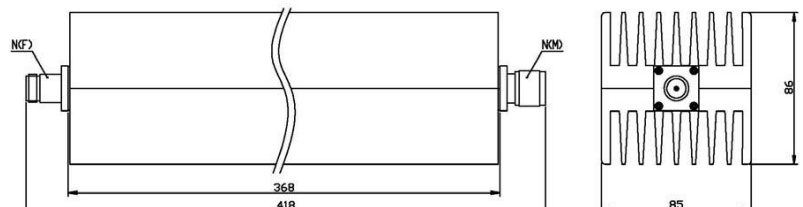
Technology Manual

1. Design Features

- ◆ HXTS500E series attenuator Frequency DC-10GHz optional◆UWB operating Frequency
- ◆ Low standing wave coefficient ◆ High attenuation value accuracy
- ◆ Strong anti-pulse ability

2. Description :

Model Number	Freq. Range	Attenuation Value/Tolerance				VSWR Max
		20dB	30dB	40dB	50dB	
HXTS500E-XX-4	DC-4GHz	/	±7.5	±0.75	±0.5	1.30
HXTS500E-XX-6	DC-6GHz	/	/	±0.75	±0.6	1.35
HXTS500E-XX-8	DC-8GHz	/	/	±0.8	±1.0	1.45
HXTS500E-XX-10	DC-10GHz	/	/	±1.5	±1.5	1.50
Average Power: 500W						
Connector Type: N(M.F)						
Impedance: 50 Ω						
Temperature Range: -55℃~+125℃						
★:XX:indicates the attenuation value						
★:Average power: 500W corresponds to an ambient temperature of 25℃, when the temperature rises to 125℃, the power decreases linearly to 50W ★:Peak power: 5KW (5μs pulse width, 5% duty cycle)						
3.Mechanical behavior						
Connector shell	Nickel plated brass					
Cavity	Aluminum shell black paint					
Size	418*85*86mm					



Remind:Outline Drawing: (Dimensions Unit: mm, Dimensions Tolerance: ±5%)

500W Coaxial Attenuator

Technology Manual

1. Design Features

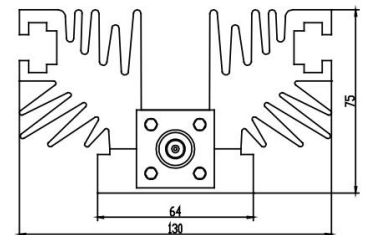
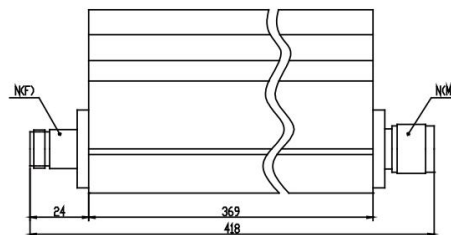
- ◆ HXTS500G series attenuator Frequency DC-10GHz optional◆UWB operating frequency
- ◆ Low standing wave coefficient ◆ High attenuation value accuracy
- ◆ Strong anti-pulse ability

2. Description :

Model Number	Freq. Range	Attenuation Value/Tolerance					VSWR Max
		10dB	20dB	30dB	40dB	50dB	
HXTS500G-XX-4	DC-4GHz	/	/	±0.5	±0.5	±0.5	1.25
HXTS500G-XX-6	DC-6GHz	/	/	/	±0.6	±0.6	1.3
HXTS500G-XX-8	DC-8GHz	/	/	/	±0.8	±0.8	1.4
HXTS500G-XX-10	DC-10GHz	/	/	/	±1.0	±1.0	1.45
Average Power: 500W							
Connector Type: N(M.F)							
Impedance: 50 Ω							
Temperature Range: -55°C~+125°C							
★:XX:indicates the attenuation value							
★:Average power: 500W corresponds to an ambient temperature of 25°C, when the temperature rises to 125°C, the power decreases linearly to 50W ★:Peak power: 5KW (5μs pulse width, 5% duty cycle)							

3.Mechanical behavior

Connector shell	Nickel plated brass
Cavity	Aluminum shell black paint
Size	418*130*75mm
Weight	4.5Kg



Remind:Outline Drawing: (Dimensions Unit: mm, Dimensions Tolerance: ± 3%)

500W Coaxial Attenuator

Technology Manual

1. Design Features

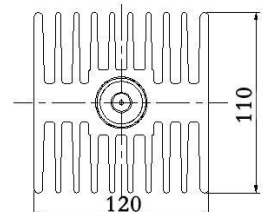
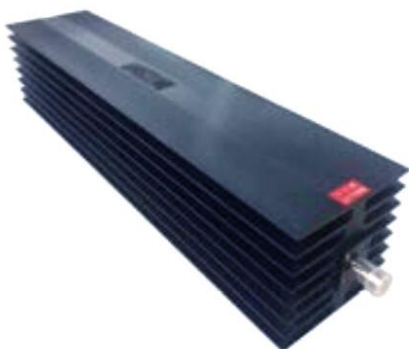
- ◆ HXTS500D series attenuator Frequency DC-18GHz optional◆UWB operating frequency
- ◆ Low standing wave coefficient ◆ High attenuation value accuracy
- ◆ Strong anti-pulse ability

2. Description :

Model Number	Freq. Range	Attenuation Value/Tolerance		VSWR Max
		30dB	40dB	
HXTS500D-XX-12.4	DC-12.4GHz	-3.0/+4.0	-3.0/+3.0	1.4
HXTS500D-XX-18	DC-18GHz	-4.0/+3.0	-4.0/+2.0	1.6
Average Power: 500W				
Connector Type: N(M.F)				
Impedance: 50Ω				
Temperature Range: -55℃~+125℃				
★:XX:indicates the attenuation value				
★:Average power: 500W corresponds to an ambient temperature of 25℃, when the temperature rises to 125℃, the power decreases linearly to 20W				
★:Peak power: 1KW (5μs pulse width, 2% duty cycle)				

3. size:

688*120*110mm(7.2Kg)



Remind:Outline Drawing: (Dimensions Unit: mm, Dimensions Tolerance: ± 3%)