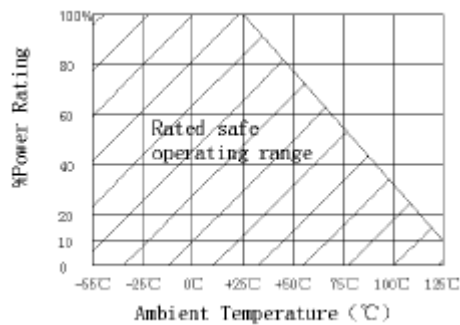


N-Type Coaxial Attenuators

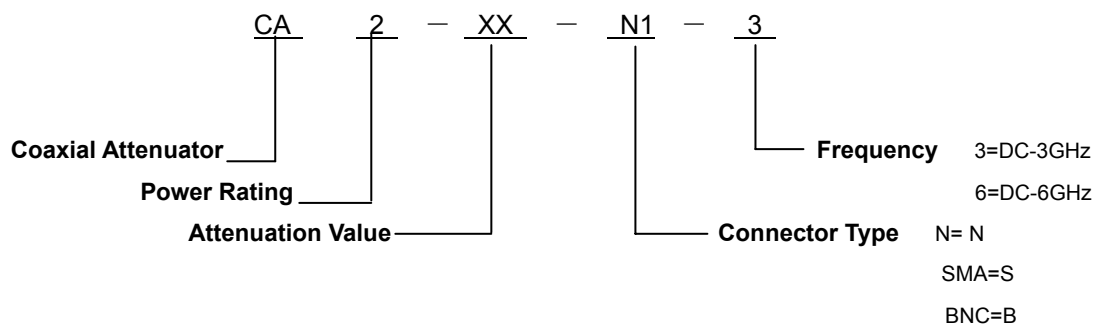
Main Specifications

- ◇ **Nominal Impedance:** 50 Ω
- ◇ **Standard Tolerance:** ±5%
- ◇ **Power Rating:** 2W-1000W
- ◇ **Frequency Range :** DC-18GHz
- ◇ **Attenuation Value:** 1-60dB
- ◇ **Attenuation Tolerance:**
 - 1-10dB ±0.6dB
 - 11-20dB ±0.8dB
 - 21- 30dB ±1.0dB
 - 31-50 dB ±1.5dB
 - 50-60 dB ±2.0dB
- ◇ **Operating Temperature:** -55℃ to +85℃
- ◇ **Connector Type:** N (Male/Female)
- ◇ **Mechanical Tolerance:** ±2%
- ◇ **Packaging:** Box
- ◇ **Custom Design Available Upon Request**
- ◇ **RoHS Compliant**

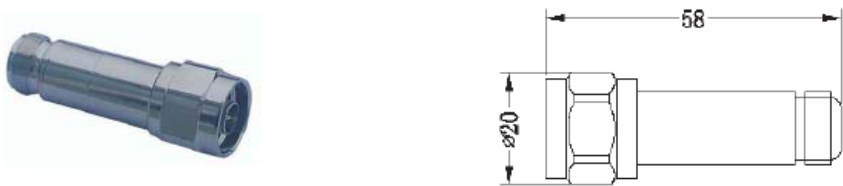
Power Derating



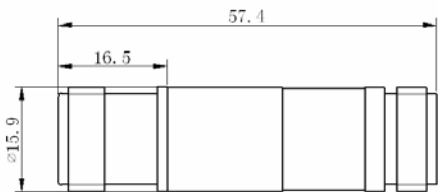
HOW TO ORDER



N-Type Coaxial Attenuators: CA2-XX-N1-3 CA2-XX-N1-6

Electrical Specifications									
Nominal Impedance (Ω)	Power Rating (W)	Frequency (GHz)	VSWR (Max)	Attenuation (dB)	Tolerance (dB)	Connector Type	Operating Temp. (°C)	Dimension (mm)	Net Weight (g)
50	2	DC-3.0 DC-6.0	1.20: 1 1.30: 1	1-10 11-20 21-30	± 0.6 ± 0.8 ± 1.0	N(M/F)	-55~+85	Φ20*58	65
Outline Drawing(mm)									
 <p>Tolerance: ±2%</p>									

N-Type Coaxial Attenuators: CA2-XX-N2-3 CA2-XX-N2-6

Electrical Specifications									
Nominal Impedance (Ω)	Power Rating (W)	Frequency (GHz)	VSWR (Max)	Attenuation (dB)	Tolerance (dB)	Connector Type	Operating Temp. (°C)	Dimension (mm)	Net Weight (g)
50	2	DC-3.0 DC-6.0	1.20: 1 1.30: 1	1-10 11-20 21-30	± 0.6 ± 0.8 ± 1.0	N(M/F)	-55~+85	Φ 15.9*57.4	58
Outline Drawing(mm)									
 <p>Tolerance: ±2%</p>									

N-Type Coaxial Attenuators: CA2-XX-N3-3/8/12.4/18

Electrical Specifications									
Nominal Impedance (Ω)	Power Rating (W)	Frequency (GHz)	VSWR (Max)	Attenuation (dB)	Tolerance (dB)	Connector Type	Operating Temp. (°C)	Dimension (mm)	Net Weight (g)
50	2	DC-3.0	1.20: 1	1-10 11-20 21-30	± 0.6/±0.8/±1.0	N(M/F)	-55~+85	Φ20*44.7	55
		DC-8.0	1.30: 1		± 0.6/±0.8/±1.0				
		DC-12.4	1.40: 1		± 0.8/±1.0/±1.1				
		DC-18.0	1.45: 1		± 0.8/±1.0/±1.1				
Outline Drawing(mm)									
<p>Tolerance: ±2%</p>									

N-Type Coaxial Attenuators: CA5-XX-N1-3 CA5-XX-N1-6

Electrical Specifications									
Nominal Impedance (Ω)	Power Rating (W)	Frequency (GHz)	VSWR (Max)	Attenuation (dB)	Tolerance (dB)	Connector Type	Operating Temp. (°C)	Dimension (mm)	Net Weight (g)
50	5	DC-3.0	1.20: 1	1-10 11-20 21-30	± 0.6	N(M/F)	-55~+85	Φ30*58	78
		DC-6.0	1.30: 1		± 0.8				
					± 1.0				
Outline Drawing(mm)									
<p>Tolerance: ±2%</p>									

N-Type Coaxial Attenuators: CA5-XX-N2-3/8/12.4/18

Electrical Specifications									
Nominal Impedance (Ω)	Power Rating (W)	Frequency (GHz)	VSWR (Max)	Attenuation (dB)	Tolerance (dB)	Connector Type	Operating Temp. (°C)	Dimension (mm)	Net Weight (g)
50	5	DC-3.0	1.20: 1	1-10 11-20 21-30	± 0.6/±0.8/±1.0	N(M/F)	-55~+85	Φ 15.5*48	50
		DC-8.0	1.30: 1		± 0.6/±0.8/±1.0				
		DC-12.4	1.40: 1		± 0.8/±1.0/±1.1				
		DC-18.0	1.45: 1		± 0.9/±1.1/±1.2				

Outline Drawing(mm)
<p>Tolerance: ±2%</p>

N-Type Coaxial Attenuators: CA5-XX-N3-8 CA5-XX-N3-12

Electrical Specifications									
Nominal Impedance (Ω)	Power Rating (W)	Frequency (GHz)	VSWR (Max)	Attenuation (dB)	Tolerance (dB)	Connector Type	Operating Temp. (°C)	Dimension (mm)	Net Weight (g)
50	5	DC-8.0	1.35: 1	1-10 11-20 21-30	± 0.6	N(M/F)	-55~+85	Φ 20*87.8	100
		DC-12.0	1.50: 1		± 0.8				
					± 1.0				

Outline Drawing(mm)
<p>Tolerance: ±2%</p>

N-Type Coaxial Attenuators: CA10-XX-N1-3 CA10-XX-N1-6

Electrical Specifications									
Nominal Impedance (Ω)	Power Rating (W)	Frequency (GHz)	VSWR (Max)	Attenuation (dB)	Tolerance (dB)	Connector Type	Operating Temp. (°C)	Dimension (mm)	Net Weight (g)
50	10	DC-3.0 DC-6.0	1.20: 1 1.30: 1	1-10	± 0.6	N(M/F)	-55~+85	Φ48*95 Φ35*72	230 115
				11-20	± 0.8				
				21-30	± 1.0				
				31-50	± 1.5				

Outline Drawing(mm)	

Tolerance: ±2%

N-Type Coaxial Attenuators: CA10-XX-N2-3 CA10-XX-N2-6


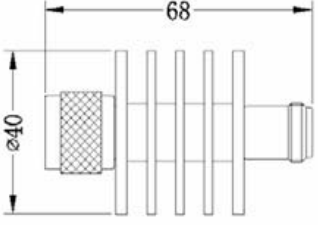
Electrical Specifications									
Nominal Impedance (Ω)	Power Rating (W)	Frequency (GHz)	VSWR (Max)	Attenuation (dB)	Tolerance (dB)	Connector Type	Operating Temp. (°C)	Dimension (mm)	Net Weight (g)
50	10	DC-3.0 DC-6.0	1.20: 1 1.30: 1	1-10	± 0.6	N(M/F)	-55~+85	60*60*50	368
				11-20	± 0.8				
				21-30	± 1.0				
				31-50	± 1.5				

Outline Drawing(mm)	


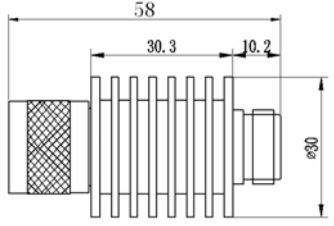
Tolerance: ±2%

7/16 connector can be offered too.

N-Type Coaxial Attenuators: CA10-XX-N3-3/8/12.4/18

Electrical Specifications									
Nominal Impedance (Ω)	Power Rating (W)	Frequency (GHz)	VSWR (Max)	Attenuation (dB)	Tolerance (dB)	Connector Type	Operating Temp. (°C)	Dimension (mm)	Net Weight (g)
50	10	DC-3.0	1.20: 1	1-10 11-20 21-30	± 0.6/±0.8/±1.0	N(M/F)	-55~+85	Φ 40*68	96
		DC-8.0	1.30: 1		± 0.7/±0.9/±1.0				
		DC-12.4	1.40: 1		± 0.9/±1.1/±1.2				
		DC-18.0	1.45: 1		± 0.9/±1.1/±1.2				
Outline Drawing(mm)									
									
Tolerance: ±2%									

N-Type Coaxial Attenuators: CA10-XX-N4-3 CA10-XX-N4-6

Electrical Specifications									
Nominal Impedance (Ω)	Power Rating (W)	Frequency (GHz)	VSWR (Max)	Attenuation (dB)	Tolerance (dB)	Connector Type	Operating Temp. (°C)	Dimension (mm)	Net Weight (g)
50	10	DC-3.0	1.20: 1	1-10 11-20 21-30	± 0.6	N(M/F)	-55~+85	Φ 30*58	78
		DC-6.0	1.30: 1		± 0.8				
					± 1.0				
Outline Drawing(mm)									
									
Tolerance: ±2%									

N-Type Coaxial Attenuators: CA20-XX-N1-3 CA20-XX-N1-6

Electrical Specifications									
Nominal Impedance (Ω)	Power Rating (W)	Frequency (GHz)	VSWR (Max)	Attenuation (dB)	Tolerance (dB)	Connector Type	Operating Temp. (°C)	Dimension (mm)	Net Weight (g)
50	20	DC-3.0 DC-6.0	1.20: 1 1.30: 1	1-10	± 0.6	N(M/F)	-55~+85	Φ54*98.5 Φ40*84	212 163
				11-20	± 0.8				
				21-30	± 1.0				
				31-50	± 1.5				
Outline Drawing(mm)									
Tolerance: ±2%									

N-Type Coaxial Attenuators: CA20-XX-N2-3 CA20-XX-N2-6

Electrical Specifications									
Nominal Impedance (Ω)	Power Rating (W)	Frequency (GHz)	VSWR (Max)	Attenuation (dB)	Tolerance (dB)	Connector Type	Operating Temp. (°C)	Dimension (mm)	Net Weight (g)
50	20	DC-3.0 DC-6.0	1.20: 1 1.30: 1	1-10	± 0.6	N(M/F)	-55~+85	70*60*50	385
				11-20	± 0.8				
				21-30	± 1.0				
				31-50	± 1.5				
Outline Drawing(mm)									
Tolerance: ±2%									

N-Type Coaxial Attenuators: CA20-XX-N3-3 CA20-XX-N3-6

Electrical Specifications									
Nominal Impedance (Ω)	Power Rating (W)	Frequency (GHz)	VSWR (Max)	Attenuation (dB)	Tolerance (dB)	Connector Type	Operating Temp. (°C)	Dimension (mm)	Net Weight (g)
50	20	DC-3.0 DC-6.0	1.20: 1 1.30: 1	1-10 11-20 21-30	± 0.6 ± 0.8 ± 1.0	N(M/F)	-55~+85	Φ35*72	210
Outline Drawing(mm)									
Tolerance: ±2%									

N-Type Coaxial Attenuators: CA25-XX-N1-3 CA25-XX-N1-6

Electrical Specifications									
Nominal Impedance (Ω)	Power Rating (W)	Frequency (GHz)	VSWR (Max)	Attenuation (dB)	Tolerance (dB)	Connector Type	Operating Temp. (°C)	Dimension (mm)	Net Weight (g)
50	25	DC-3.0 DC-6.0	1.20: 1 1.30: 1	1-10 11-20 21-30 31-50	± 0.6 ± 0.8 ± 1.0 ± 1.5	N(M/F)	-55~+85	60*60*60	403
Outline Drawing(mm)									
Tolerance: ±2%									

N-Type Coaxial Attenuators: CA25-XX- N2-3/8/12.4/18

Electrical Specifications									
Nominal Impedance (Ω)	Power Rating (W)	Frequency (GHz)	VSWR (Max)	Attenuation (dB)	Tolerance (dB)	Connector Type	Operating Temp. (°C)	Dimension (mm)	Net Weight (g)
50	25	DC-3.0	1.20: 1	1-10 11-20 21-30	± 0.6/±0.8/±1.0	N(M/F)	-55~+85	Φ45*77	121
		DC-8.0	1.30: 1		± 0.7/±0.9/±1.0				
		DC-12.4	1.40: 1		± 0.9/±1.1/±1.2				
		DC-18.0	1.45: 1		± 1.1/±1.1/±1.2				

Outline Drawing(mm)	
<p>Tolerance: ±2%</p>	

N-Type Coaxial Attenuators: CA30-XX-N1-3 CA30-XX-N1-6

Electrical Specifications									
Nominal Impedance (Ω)	Power Rating (W)	Frequency (GHz)	VSWR (Max)	Attenuation (dB)	Tolerance (dB)	Connector Type	Operating Temp. (°C)	Dimension (mm)	Net Weight (g)
50	30	DC-3.0 DC-6.0	1.20: 1 1.30: 1	1-10	± 0.6	N(M/F)	-55~+85	Φ45*104 Φ48*95 Φ54*109	226 200 260
				11-20	± 0.8				
				21-30	± 1.0				
				31-50	± 1.5				

Outline Drawing(mm)	
<p>Tolerance: ±2%</p>	

N-Type Coaxial Attenuators: CA30-XX-N2-3 CA30-XX-N2-6

Electrical Specifications									
Nominal Impedance (Ω)	Power Rating (W)	Frequency (GHz)	VSWR (Max)	Attenuation (dB)	Tolerance (dB)	Connector Type	Operating Temp. (°C)	Dimension (mm)	Net Weight (g)
50	30	DC-3.0 DC-6.0	1.20: 1 1.30: 1	1-10 11-20 21-30 31-50	± 0.6 ± 0.8 ± 1.0 ± 1.5	N(M/F)	-55~+85	100*70*50	627
Outline Drawing(mm)									
<p>Tolerance: ±2%</p>									

N-Type Coaxial Attenuators: CA30-XX-N3-3 CA30-XX-N3-6

Electrical Specifications									
Nominal Impedance (Ω)	Power Rating (W)	Frequency (GHz)	VSWR (Max)	Attenuation (dB)	Tolerance (dB)	Connector Type	Operating Temp. (°C)	Dimension (mm)	Net Weight (g)
50	30	DC-3.0 DC-6.0	1.20: 1 1.30: 1	1-10 11-20 21-30	± 0.6 ± 0.8 ± 1.0	N(M/F)	-55~+85	60*60*60	404
Outline Drawing(mm)									
<p>Tolerance: ±2%</p>									

N-Type Coaxial Attenuators: CA50-XX-N1-3 CA50-XX-N1-6

Electrical Specifications									
Nominal Impedance (Ω)	Power Rating (W)	Frequency (GHz)	VSWR (Max)	Attenuation (dB)	Tolerance (dB)	Connector Type	Operating Temp. (°C)	Dimension (mm)	Net Weight (g)
50	50	DC-3.0 DC-6.0	1.20: 1 1.30: 1	1-10	± 0.6	N(M/F)	-55~+85	Φ50*134 Φ64*109	333 418
				11-20	± 0.8				
				21-30	± 1.0				
				31-50	± 1.5				

Outline Drawing(mm)	
<p>Tolerance: ±2%</p>	

7/16 connector can be offered too.

N-Type Coaxial Attenuators: CA50-XX-N2-3 CA50-XX-N2-6

Electrical Specifications									
Nominal Impedance (Ω)	Power Rating (W)	Frequency (GHz)	VSWR (Max)	Attenuation (dB)	Tolerance (dB)	Connector Type	Operating Temp. (°C)	Dimension (mm)	Net Weight (g)
50	50	DC-3.0 DC-6.0	1.20: 1 1.30: 1	1-10	± 0.6	N(M/F)	-55~+85	100*85*60	920
				11-20	± 0.8				
				21-30	± 1.0				
				31-50	± 1.5				

Outline Drawing(mm)	
<p>Tolerance: ±2%</p>	

7/16 connector can be offered too.

N-Type Coaxial Attenuators: CA50-XX-N3-3 CA50-XX-N3-6

Electrical Specifications									
Nominal Impedance (Ω)	Power Rating (W)	Frequency (GHz)	VSWR (Max)	Attenuation (dB)	Tolerance (dB)	Connector Type	Operating Temp. (°C)	Dimension (mm)	Net Weight (g)
50	50	DC-3.0 DC-6.0	1.20: 1 1.30: 1	1-10 11-20 21-30 31-50	± 0.6 ± 0.8 ± 1.0 ± 1.5	N(M/F)	-55~+85	80*60*60	320

Outline Drawing(mm)									
Tolerance: ±2%									

N-Type Coaxial Attenuators: CA50-XX-N4-1/2/3/4

Electrical Specifications									
Nominal Impedance (Ω)	Power Rating (W)	Frequency (GHz)	VSWR (Max)	Attenuation (dB)	Tolerance (dB)	Connector Type	Operating Temp. (°C)	Dimension (mm)	Net Weight (g)
50	50	DC-1.0 DC-2.0 DC-3.0 DC-4.0	1.15: 1 1.20: 1 1.25: 1 1.30: 1	10, 20, 30/ 40 10, 20, 30/ 40 10, 20, 30/ 40 10/ 20, 30,40	± 0.5dB/± 0.8dB ± 0.5dB/± 0.6dB ± 0.8dB/± 1.1dB ± 0.8dB/± 1.1dB	N(M/F)	-55~+85	Φ38*77	250

Outline Drawing(mm)									
Tolerance: ±2%									

N-Type Coaxial Attenuators: CA50-XX-N5-3/8/12.4/18

Electrical Specifications									
Nominal Impedance (Ω)	Power Rating (W)	Frequency (GHz)	VSWR (Max)	Attenuation (dB)	Tolerance (dB)	Connector Type	Operating Temp. (°C)	Dimension (mm)	Net Weight (g)
50	50	DC-3.0 DC-8.0 DC-12.4 DC-18.0	1.20: 1 1.30: 1 1.40: 1 1.45: 1	1-10 11-20 21-30	± 0.6/±0.8/±1.0 ± 0.7/±0.9/±1.0 ± 0.9/±1.1/±1.1 ± 1.3/±1.3/±1.4	N(M/F)	-55~+85	Φ45*143	271
Outline Drawing(mm)									
Tolerance: ±2%									

N-Type Coaxial Attenuators: CA100-XX-N1-3 CA100-XX-N1-6

Electrical Specifications									
Nominal Impedance (Ω)	Power Rating (W)	Frequency (GHz)	VSWR (Max)	Attenuation (dB)	Tolerance (dB)	Connector Type	Operating Temp. (°C)	Dimension (mm)	Net Weight (Kg)
50	100	DC-3.0 DC-6.0	1.20: 1 1.30: 1	1-10 11-20 21-30 31-50	± 0.6 ± 0.8 ± 1.0 ± 1.5	N(M/F)	-55~+85	142*120*65	1.91
Outline Drawing(mm)									
Tolerance: ±2%									

N-Type Coaxial Attenuators: CA100-XX-N2-3 CA100-XX-N2-6

Electrical Specifications									
Nominal Impedance (Ω)	Power Rating (W)	Frequency (GHz)	VSWR (Max)	Attenuation (dB)	Tolerance (dB)	Connector Type	Operating Temp. (°C)	Dimension (mm)	Net Weight (Kg)
50	100	DC-3.0 DC-6.0	1.20: 1 1.30: 1	1-10 11-20 21-30 31-50	± 0.6 ± 0.8 ± 1.0 ± 1.5	N(M/F)	-55~+85	120*100*60	1.21
Outline Drawing(mm)									
<p>Tolerance: ±2%</p>									

N-Type Coaxial Attenuators: CA100-XX-N3-3/8/10

Electrical Specifications									
Nominal Impedance (Ω)	Power Rating (W)	Frequency (GHz)	VSWR (Max)	Attenuation (dB)	Tolerance (dB)	Connector Type	Operating Temp. (°C)	Dimension (mm)	Net Weight (Kg)
50	100	DC-3.0 DC-8.0 DC-10.0	1.20: 1 1.40: 1 1.45: 1	1-10 11-20 21-30	± 0.6/±0.8/±1.0 ± 0.9/±1.1/±1.1 ± 1.0/±1.0/±1.1	N(M/F)	-55~+85	132*76*76	1.45
Outline Drawing(mm)									
<p>Tolerance: ±2%</p>									

N-Type Coaxial Attenuators: CA200-XX-N1-3 CA200-XX-N1-6

Electrical Specifications									
Nominal Impedance (Ω)	Power Rating (W)	Frequency (GHz)	VSWR (Max)	Attenuation (dB)	Tolerance (dB)	Connector Type	Operating Temp. (°C)	Dimension (mm)	Net Weight (Kg)
50	200	DC-3.0 DC-6.0	1.20: 1 1.30: 1	1-10 11-20 21-30 31-50	± 0.6 ± 0.8 ± 1.0 ± 1.5	N(M/F)	-55~+85	230*160*87	3.41
Outline Drawing(mm)									
<p>Tolerance: ±2%</p>									

N-Type Coaxial Attenuators: CA200-XX-N2-3 CA200-XX-N2-6

Electrical Specifications									
Nominal Impedance (Ω)	Power Rating (W)	Frequency (GHz)	VSWR (Max)	Attenuation (dB)	Tolerance (dB)	Connector Type	Operating Temp. (°C)	Dimension (mm)	Net Weight (Kg)
50	200	DC-3.0 DC-6.0	1.20: 1 1.30: 1	1-10 11-20 21-30 31-50	± 0.6 ± 0.8 ± 1.0 ± 1.5	N(M/F)	-55~+85	200*142*65	3.0
Outline Drawing(mm)									
<p>Tolerance: ±2%</p>									

N-Type Coaxial Attenuators: CA250-XX-N1-3 CA250-XX-N1-6

Electrical Specifications									
Nominal Impedance (Ω)	Power Rating (W)	Frequency (GHz)	VSWR (Max)	Attenuation (dB)	Tolerance (dB)	Connector Type	Operating Temp. (°C)	Dimension (mm)	Net Weight (Kg)
50	250	DC-3.0 DC-6.0	1.20: 1 1.30: 1	1-10 11-20 21-30 31-50	± 0.6 ± 0.8 ± 1.0 ± 1.5	N(M/F)	-55~+85	230*160*87	3.2
Outline Drawing(mm)									
Tolerance: ±2%									

N-Type Coaxial Attenuators: CA300-XX-N1-3 CA300-XX-N1-6

Electrical Specifications									
Nominal Impedance (Ω)	Power Rating (W)	Frequency (GHz)	VSWR (Max)	Attenuation (dB)	Tolerance (dB)	Connector Type	Operating Temp. (°C)	Dimension (mm)	Net Weight (Kg)
50	300	DC-3.0 DC-6.0	1.20: 1 1.40: 1	1-10 11-20 21-30 31-50	± 0.6 ± 0.8 ± 1.0 ± 1.5	N(M/F)	-55~+85	300*160*84	5.8
Outline Drawing(mm)									
Tolerance: ±2%									

N-Type Coaxial Attenuators: CA500-XX-N1-3 CA500-XX-N1-6

Electrical Specifications									
Nominal Impedance (Ω)	Power Rating (W)	Frequency (GHz)	VSWR (Max)	Attenuation (dB)	Tolerance (dB)	Connector Type	Operating Temp. (°C)	Dimension (mm)	Net Weight (Kg)
50	500	DC-3.0 DC-6.0	1.30: 1 1.40: 1	1-10	± 1.1/1.3	N(M/F)	-55~+85	400*245*97	10
				11-20	± 1.2/1.6				
				21-30	± 1.3/1.6				
				31-50	± 1.3/1.7				

Outline Drawing(mm)	
Tolerance: ±2%	7/16 connector can be offered too.

N-Type Coaxial Attenuators: CA1000-XX-N1-3

Electrical Specifications									
Nominal Impedance (Ω)	Power Rating (W)	Frequency (GHz)	VSWR (Max)	Attenuation (dB)	Tolerance (dB)	Connector Type	Operating Temp. (°C)	Dimension (mm)	Net Weight (Kg)
50	1000	DC-3.0	1.40: 1	30-40	± 1.5	N(M/F)	-55~+85	400*410*97	17.1
				50-60	± 2.0				

Outline Drawing(mm)	
Tolerance: ±2%	7/16 connector can be offered too.