YSRSA10-6-121-1A4

Rotary Step Attenuator, 10 W, DC-6 GHz, 0-121 dB

Key Features

- Broadband Operation (DC-6 GHz)
- High Precision Attenuation Control
- High Power Handling up to 10 W
- Flexible Connector Options
- Rugged & Reliable Mechanical Design

Applications

- RF & Microwave Test Systems
- Signal Simulation & Calibration
- Receiver Protection
- EMC / EMI Testing
- System Integration & Lab Use

Electrical Specifications					
Impedance	50 Ω				
Average Power	2 W, 10 W				
Peak Power	100 W (pulse width: 5μs, duty cycle: 2%)				
Freq. (GHz)	Attenuation		VSWR (Max.)	Insertion Loss (dB.Max.)	Accuracy(dB)
	Range	Step Size			
DC~2.5	0~71 dB	0.1 dB	1.50	1.5	±0.3 (<1 dB) ±0.5 (1-10 dB) ±0.8 or 3% (10.1-69.9 dB) ±3.5% (≥70 dB)
DC~3			1.60	1.7	
DC~4.3			1.70	2.0	
DC~6			1.75	2.5	
DC~0.03[1] (Outline B)	0~101 dB	0.1 dB	1.1	0.8	±0.09dB(≤15 dB) ±(0.5%A[2]+0.02) dB(>15 dB)
DC~2.5			1.50	1.5	±0.3 (<1 dB) ±0.5 (1-10 dB) ±0.8 or 3% (10.1-69.9dB) ±3.5% (≥70 dB)
DC~3			1.60	1.7	
DC~6	0~95 dB	1 dB	1.75	2.5	±0.5dB (≤10 dB) ±0.8dB or 3% (11-69 dB) ±6% (70-99 dB) ±7% (100-121 dB)
	0~110 dB	1 dB			
	0~121dB	1 dB			
Environmental Specifications					
Operating Temperature	-20°C to +85°C				
Mechanical Specifications					
Connectors	N-Type Female				
Body Material	Aluminum				
Dimension	Outline A: 250.5×87×79 mm / [9.86×3.43×3.11 in] Outline B: 288×79×66 mm / [11.34×3.43×2.60 in]				
Weight	Outline B: Approx. 1630 g, Outline B: Approx. 2020 g				

Note 1: The DC–0.03 GHz version is a precision type, available with an average power rating of 2 W only. Connector options include N, BNC, and SMA.

Note 2:A represents the attenuation value

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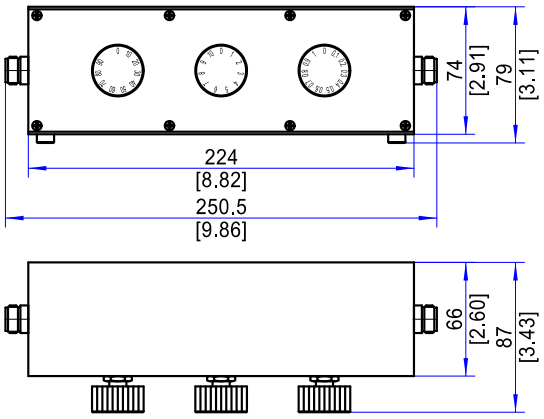
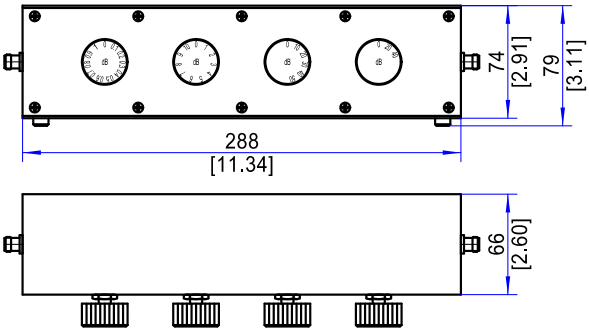
Outline Drawing (Units: mm/[inch], Tolerance: ± 0.5 mm)



Outline A



Outline B: DC~0.03GHz

Ordering Information:

Model: **YSRSAXX-YY-ZZ-CC**
XX = Power Handling
YY = Frequency Range in GHz
ZZ = Attenuation Range in dB (e.g. 70-R1 = 0-71 dB range with 0.1 dB step size)
CC = Connector Type (N=N-Type Female)
Example: 6 GHz, 2 W, 0~71 dB in 0.1 dB Steps, N-Female→**YSRSA2-6-71-R1A4-N**