

YSRSA5-28-109-1A9

Rotary Step Attenuator, 5 W, DC-28 GHz, 0-109 dB

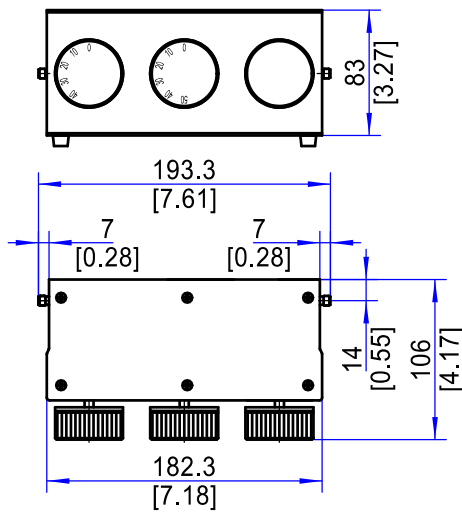
Key Features

- Broadband Operation (DC-26.5 GHz)
- High Precision Attenuation Control
- High Power Handling up to 25 W
- Flexible Connector Options
- Rugged & Reliable Mechanical Design

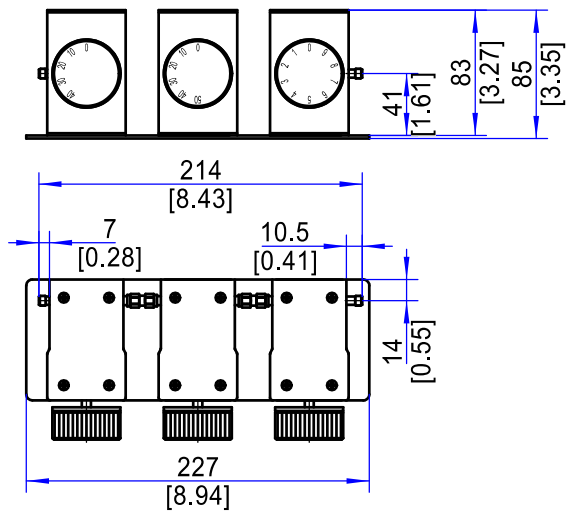
Applications

- 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/5 W				
Peak Power	200 W (pulse width: 5 μ s, duty cycle: 2%)				
Freq. (GHz)	Attenuation		VSWR (Max.)	Insertion Loss (dB.Max.)	Accuracy (dB)
	Range	Step Size			
DC-8	0-99.9 dB	0.1 dB	1.50	1.3	$\pm 0.5(0-0.9 \text{ dB})$ $\pm 0.8(1-9.9 \text{ dB}/0.1-8 \text{ GHz})$ $\pm 1.0(1-9.9 \text{ dB}/8-18 \text{ GHz})$
DC-12.4			1.65	1.6	$\pm 1.5(10-19.9 \text{ dB})$ $\pm 2.0(20-49.9 \text{ dB})$
DC-18			2.0	1.7	$\pm 2.5(50-69.9 \text{ dB})$ $\pm 3.0 \text{ or } 3.5\%(70-99.9 \text{ dB})$
DC-12.4	0-109 dB 0-119 dB 0-129 dB	1 dB	1.7	1.6	$\pm 0.8(1-9 \text{ dB})$ $\pm 1.0(10-19 \text{ dB})$ $\pm 1.5(20-49 \text{ dB})$ $\pm 2.0(50-69 \text{ dB})$
DC-18			2.0	1.8	$\pm 2.5 \text{ or } 3.5\%(70-99 \text{ dB})$ $\pm 4\%(>99 \text{ dB})$
DC-26.5@5 W	0-99 dB	1 dB	2.0	3.0	$\pm 1.5(0-9 \text{ dB})$ $\pm 2.5 \text{ or } 5\%(10-99 \text{ dB})$
DC-28@5 W	0-109 dB				
Environmental Specifications					
Operating Temperature	0°C to +54°C				
Mechanical Specifications					
Connectors	N-Type Female, SMA Female (DC-18 GHz) 3.5mm Female (DC-26.5/28 GHz)				
Body Material	Connector: Nickel Plated Brass Housing: Aluminum				
Dimension	Outline A: 182.3×106×83 mm / [7.18×4.17×3.27 in] (0.1 dB Steps) 194×106×83 mm / [7.64×4.17×3.27 in] (1 dB Steps) Outline B: 227×106×85 mm / [8.94×4.17×3.35 in] (26.5 GHz, 28 GHz)				
Weight	Outline A: 1335 g (0.1 dB Steps)/1500 g (1 dB Steps) Outline B: 1780 g (26.5 GHz, 28 GHz)				

Outline Drawing (Units: mm/[inch], Tolerance: ± 0.3 mm)


Outline A: SMA or N-Type connectors



Outline B: 3.5 mm connector (26.5/28 GHz)

Ordering Information:

 Model: **YSRSAXX-YY-ZZ-CC**

XX = Power Handling

YY = Frequency Range in GHz

ZZ = Attenuation Range in dB (e.g. 99-1 = 0-99 dB range with 1 dB step size)

CC = Connector Type (S=SMA Female, N=N-Type Female, 3=3.5mm Female)

 Example: 26.5 GHz, 5 W, 0-99 dB in 1 dB Steps, 3.5 mm Female \rightarrow **YSRSA5-26-99-1A9-3**