

YSDA-R2-6-63-S

0.2-6 GHz, 63 dB Digital Programmable Attenuator

Key Features

- Broadband operation from 0.2-6 GHz
- Up to 63 dB attenuation range
- 1 dB resolution with TTL parallel control
- Fast switching for dynamic apps
- Compact design for harsh environments

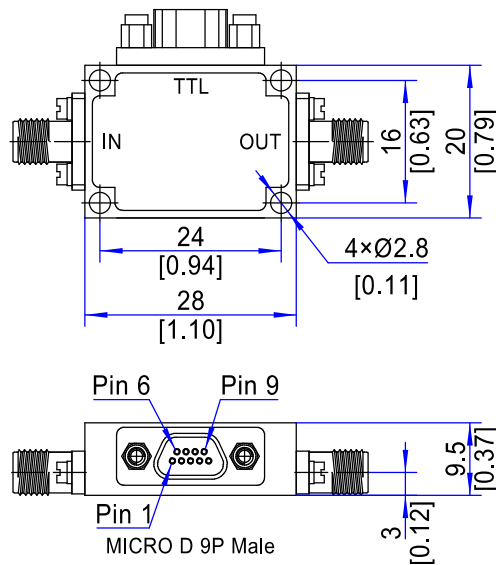
Applications

- RF Test & Measurement
- Automated RF Test Systems
- Signal Level Control & Conditioning
- Radar & EW Systems
- Microwave Communication Systems

Electrical Specifications								
Parameter			Min.	Typ.	Max.			Unit
Frequency Range			0.2	-	6			GHz
Insertion Loss			-	4	5.5			dB
Attenuation Range			-	-	63			dB
Attenuation Step			-	1	-			dB
Attenuation Accuracy			1-7 dB: ±0.5 dB; 7-11 dB: ±0.7 dB; 11-30 dB: ±1.0 dB; 31-63 dB: ±1.5 dB;					dB
Attenuation Flatness			1-7 dB: ±0.5 dB; 7-11 dB: ±1.0 dB; 11-30 dB: ±2.0 dB; 31-63 dB: ±2.5 dB;					dB
Digital Control			-					Bit
Switch Speed			-	-	1			us
Input VSWR			-	1.5:1	1.8:1			-
Output VSWR			-	1.5:1	1.8:1			-
Input Max Power			-	-	20			dBm
Supply Voltage			-	+5.0	-			VDC
Supply Current			-	-	0.05			A
Impedance			50					Ω
Environmental Specifications								
Parameter			Specification					
Operating Temperature			-25°C to +85°C					
Storage Temperature			-55°C to +125°C					
Mechanical & Interface Specifications								
Parameter			Specification					
RF Connectors			SMA Female					
Power & Control Connector			MICRO D 9P Male Define					
Dimensions ¹			28×20×9.5 mm / [1.10×0.79×0.37 in]					
Material			Aluminium / Gold Painting					
Weight			20 g					
Control Connector Pin Assignment								
1	2	3	4	5	6	7	8	9
+5 V	GND	NC	C1	C2	C3	C4	C5	C6
Attenuationstate			Control Voltage Input					

Reference IL	0	0	0	0	0	0
1 dB	1	0	0	0	0	0
2 dB	0	1	0	0	0	0
4 dB	0	0	1	0	0	0
8 dB	0	0	0	1	0	0
16 dB	0	0	0	0	1	0
32 dB	0	0	0	0	0	1
63 dB	1	1	1	1	1	1
Low(0)=0 to 0.8 V _{dc}			High(1)=2.0 to +5.0 V _{dc}			

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



Note 1: Dimensions exclude RF connectors.