

YSCI100-R9-5R9-S

0.9-5.9 GHz Coaxial Isolator, 100 W, 25 dB Isolation

Key Features

- Wide frequency coverage
- High isolation and low insertion loss
- Compact coaxial design for easy integration
- High power handling capability
- Excellent VSWR for reliable signal matching

Applications

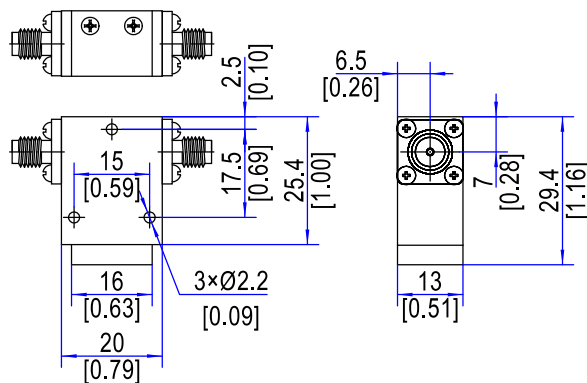
- Satellite & Aerospace Communications
- Radar and electronic warfare (EW) systems
- Test & measurement equipment
- RF power amplification chains
- Telecommunication and broadcast networks

Electrical Specifications

Frequency Range (GHz)	Insertion Loss (dB Max)	Isolation (dB Min)	VSWR	CW Power (w)	Reverse Power (w)
0.9-0.93	0.4	23	1.20	100	20/100
0.93-0.96	0.4	23	1.20	100	20/100
1.03-1.09	0.4	23	1.20	100	20/100
1.29-1.31	0.3	23	1.20	100	20/100
1.3-1.4	0.4	20	1.20	100	20/100
1.4-1.5	0.3	23	1.20	100	20/100
1.4-1.7	0.5	18	1.30	100	20/100
1.5-1.7	0.35	20	1.25	100	20/100
1.7-1.9	0.4	20	1.25	100	20/100
1.71-1.88	0.4	20	1.25	100	20/100
1.8-1.9	0.3	23	1.20	100	20/100
1.805-1.88	0.3	23	1.20	100	20/100
1.88-1.9	0.25	25	1.15	100	20/100
1.9-2.2	0.4	20	1.25	100	20/100
2.0-2.4	0.5	18	1.30	100	20/100
2.11-2.17	0.3	23	1.20	100	20/100
2.2-2.3	0.3	23	1.20	100	20/100
2.3-2.5	0.35	20	1.20	100	20/100
2.4-2.5	0.25	23	1.15	100	20/100
2.5-2.7	0.3	20	1.20	100	20/100
2.62-2.69	0.3	23	1.15	100	20/100
2.7-3.1	0.4	20	1.25	100	20/100
2.9-3.1	0.3	23	1.20	100	20/100
3.1-3.4	0.35	20	1.20	100	20/100
3.4-3.6	0.3	20	1.20	100	20/100
3.4-3.7	0.35	20	1.25	100	20/100
3.6-4.0	0.4	20	1.25	100	20/100
3.7-4.2	0.45	19	1.25	100	20/100
3.75-4.25	0.45	19	1.25	100	20/100
3.9-4.2	0.4	20	1.25	100	20/100

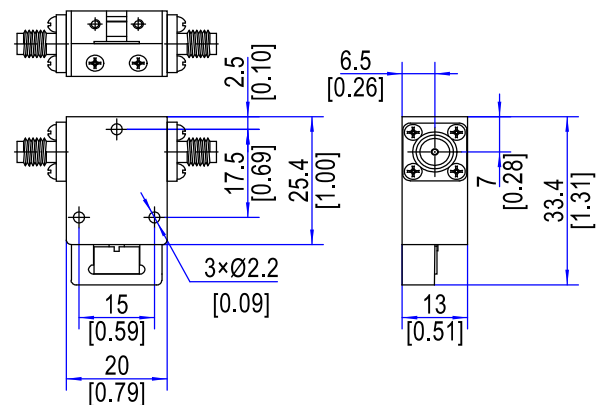
4.0-4.5	0.4	20	1.25	100	20/100
4.4-5.0	0.5	20	1.25	100	20/100
4.5-5.0	0.45	20	1.25	100	20/100
4.9-5.0	0.3	23	1.20	100	20/100
5.7-5.9	0.4	23	1.20	80	20/100
Impedance	50 Ω				
Environmental Specifications					
Operating Temperature	-30°C to +70°C, -45°C to +85°C Please consult with a sales engineer to verify all specifications within the operating temperature range of -45°C to +85°C.				
Storage Temperature	-50°C to +90°C				
Mechanical Specifications					
Connectors	SMA-Female				
Dimension ¹	Reflected Power 20 W: 20×29.4×13 mm / [0.79×1.16×0.51 in] Reflected Power 100 W: 20×33.4×13 mm / [0.79×1.31×0.51 in]				

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



Outline A

Maximum Reflected Power: 20 W



Outline B

Maximum Reflected Power: 100 W

Ordering Information:

Example: 1.3-1.4 GHz, 100 W, SMA Connector, Reflected Power 100 W

Model: YSCI100-1R3-1R4-S-100

Note 1: Excluding connector size.