

YSCI300-R25-1R4-N

0.25-1.4 GHz Coaxial Isolator, 300 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

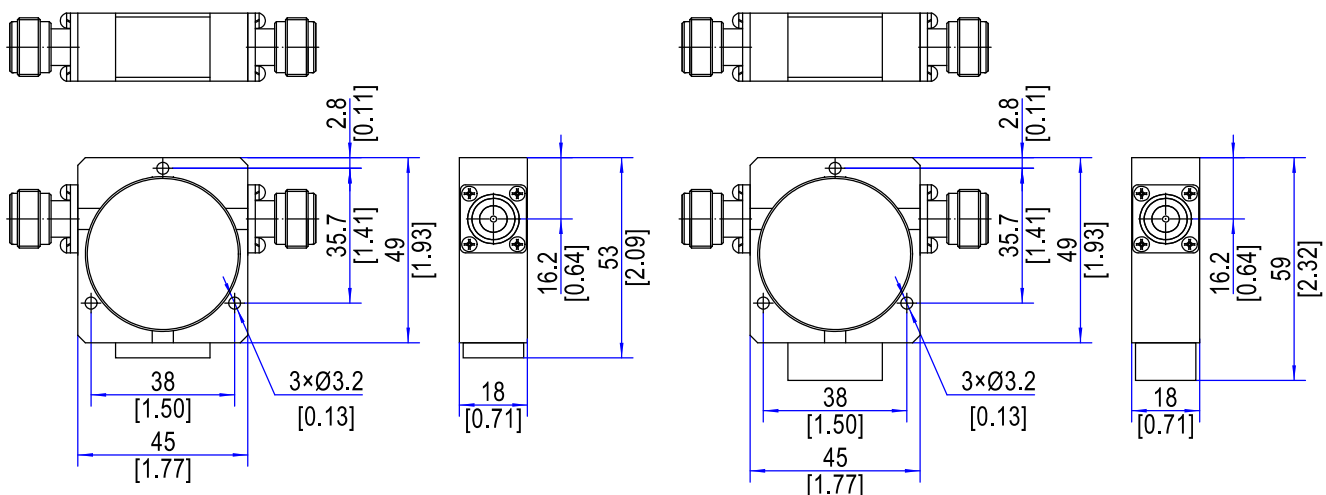
- Satellite & Aerospace Communications
- Radar and electronic warfare (EW) systems
- Test & measurement equipment
- RF power amplification chains
- Telecommunication and broadcast networks

Electrical Specifications

Frequency Range (GHz)	Insertion Loss (dB Max)	Isolation (dB Min)	VSWR	CW Power (w)	Reverse Power (w)
0.25-0.3	0.6	20	1.25	300	20/100
0.28-0.31	0.4	23	1.20	300	20/100
0.285-0.295	0.3	23	1.20	300	20/100
0.289-0.359	0.5	19	1.25	300	20/100
0.29-0.31	0.3	23	1.20	300	20/100
0.292-0.332	0.4	20	1.25	300	20/100
0.3-0.35	0.5	20	1.25	300	20/100
0.3-0.4	0.6	18	1.30	300	20/100
0.3-0.42	0.8	13	1.60	300	20/100
0.32-0.415	0.8	18	1.40	300	20/100
0.345-0.415	0.6	20	1.25	300	20/100
0.35-0.4	0.4	20	1.20	300	20/100
0.35-0.47	0.5	19	1.25	300	20/100
0.36-0.44	0.4	20	1.25	300	20/100
0.36-0.47	0.5	20	1.25	300	20/100
0.375-0.415	0.4	20	1.25	300	20/100
0.38-0.48	0.5	18	1.30	300	20/100
0.4-0.43	0.25	25	1.15	300	20/100
0.4-0.5	0.5	20	1.25	300	20/100
0.4-0.52	0.5	18	1.30	300	20/100
0.4-0.55	0.6	18	1.30	300	20/100
0.4-0.6	0.9	14	1.60	300	20/100
0.412-0.512	0.5	20	1.25	300	20/100
0.44-0.47	0.25	25	1.15	300	20/100
0.45-0.6	0.5	18	1.30	300	20/100
0.46-0.605	0.5	18	1.30	300	20/100
0.47-0.52	0.4	20	1.25	300	20/100
0.47-0.61	0.5	18	1.30	300	20/100
0.47-0.65	0.6	18	1.30	300	20/100
0.5-0.7	0.7	15	1.50	300	20/100

0.52-0.57	0.3	23	1.20	300	20/100
0.57-0.61	0.3	23	1.20	300	20/100
0.6-0.9	0.8	15	1.50	300	20/100
0.61-0.96	0.8	17	1.50	300	20/100
0.62-0.862	0.5	20	1.25	300	20/100
0.69-1.0	0.6	18	1.30	300	20/100
0.698-0.960	0.5	20	1.25	300	20/100
0.7-1.0	0.6	20	1.25	300	20/100
0.76-1.01	0.5	20	1.25	300	20/100
0.8-0.9	0.3	23	1.20	300	20/100
0.8-1.0	0.4	20	1.25	300	20/100
0.8-1.2	0.6	16	1.40	300	20/100
0.806-0.96	0.3	23	1.20	300	20/100
0.85-1.0	0.4	23	1.20	300	20/100
0.85-1.15	0.4	20	1.25	300	20/100
1.01-1.11	0.3	23	1.20	300	20/100
1.2-1.3	0.3	23	1.20	300	20/100
1.2-1.4	0.3	20	1.20	300	20/100
Impedance	50 Ω				
Environmental Specifications					
Operating Temperature	-30°C to +75°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	N-Typ Female, SMA				
Dimension ¹	Reflected Power 20 W: 45×53×18 mm / [1.77×2.09×0.71 in] Reflected Power 100 W: 45×59×18 mm / [1.77×2.32×0.71 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: 0.25-0.3 GHz, 300 W, N-Type Connector, Reflected Power 100 W.

Model: YSCI300-R25-R3-N-100

Note 1: Excluding connector size.