

YSCI100-R3-1R85-N

0.3-1.85 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

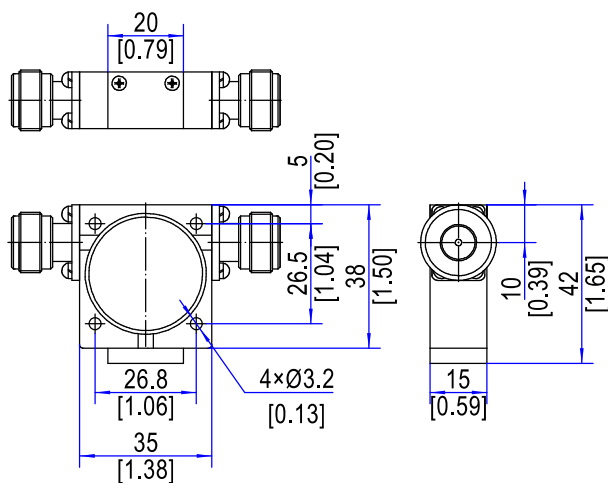
Electrical Specifications

Frequency Range (GHz)	Insertion Loss (dB Max)	Isolation (dB Min)	VSWR	CW Power (w)	Reverse Power (w)
0.3-0.32	0.6	20	1.25	100	20/100
0.3-0.35	0.8	18	1.35	100	20/100
0.31-0.34	0.5	20	1.25	100	20/100
0.32-0.34	0.45	20	1.25	100	20/100
0.35-0.37	0.4	20	1.25	100	20/100
0.35-0.4	0.5	19	1.25	100	20/100
0.361-0.366	0.3	23	1.20	100	20/100
0.37-0.42	0.5	19	1.25	100	20/100
0.38-0.41	0.4	20	1.25	100	20/100
0.38-0.46	0.5	18	1.30	100	20/100
0.39-0.41	0.3	23	1.20	100	20/100
0.4-0.42	0.3	23	1.20	100	20/100
0.4-0.44	0.4	20	1.25	100	20/100
0.4-0.45	0.4	20	1.25	100	20/100
0.4-0.47	0.4	20	1.25	100	20/100
0.4-0.5	0.5	19	1.25	100	20/100
0.41-0.46	0.4	20	1.25	100	20/100
0.42-0.43	0.3	25	1.15	100	20/100
0.42-0.45	0.3	23	1.20	100	20/100
0.42-0.48	0.4	20	1.25	100	20/100
0.43-0.44	0.3	23	1.20	100	20/100
0.43-0.47	0.4	20	1.25	100	20/100
0.44-0.47	0.3	23	1.20	100	20/100
0.45-0.456	0.25	25	1.15	100	20/100
0.45-0.5	0.4	20	1.25	100	20/100
0.45-0.52	0.4	20	1.25	100	20/100
0.45-0.55	0.4	20	1.25	100	20/100
0.455-0.465	0.25	25	1.15	100	20/100
0.459-0.486	0.3	23	1.20	100	20/100
0.47-0.49	0.3	23	1.20	100	20/100

0.47-0.53	0.4	20	1.20	100	20/100
0.47-0.57	0.4	20	1.25	100	20/100
0.47-0.61	0.5	18	1.30	100	20/100
0.475-0.525	0.3	23	1.20	100	20/100
0.495-0.516	0.3	23	1.20	100	20/100
0.5-0.6	0.4	20	1.20	100	20/100
0.5-0.7	0.7	17	1.35	100	20/100
0.57-0.67	0.3	23	1.20	100	20/100
0.58-0.72	0.4	19	1.25	100	20/100
0.6-0.7	0.4	20	1.25	100	20/100
0.6-0.8	0.5	18	1.30	100	20/100
0.67-0.77	0.3	23	1.20	100	20/100
0.69-0.86	0.4	20	1.20	100	20/100
0.7-0.8	0.3	23	1.20	100	20/100
0.7-0.862	0.4	20	1.25	100	20/100
0.7-0.9	0.4	20	1.25	100	20/100
0.703-0.862	0.4	20	1.25	100	20/100
0.75-0.95	0.4	20	1.25	100	20/100
0.77-0.86	0.3	23	1.20	100	20/100
0.8-1.0	0.4	20	1.25	100	20/100
0.854-0.921	0.3	23	1.20	100	20/100
0.86-0.872	0.25	25	1.15	100	20/100
0.862-0.96	0.3	23	1.20	100	20/100
0.9-0.93	0.25	25	1.15	100	20/100
0.9-1.0	0.3	23	1.20	100	20/100
0.9-1.1	0.4	20	1.25	100	20/100
0.9-1.3	0.5	19	1.25	100	20/100
0.95-1.0	0.3	23	1.20	100	20/100
0.95-1.26	0.4	20	1.25	100	20/100
0.95-1.28	0.5	20	1.25	100	20/100
0.95-1.45	0.6	17	1.35	100	20/100
0.96-1.16	0.4	20	1.25	100	20/100
0.96-1.215	0.4	20	1.25	100	20/100
0.96-1.26	0.4	20	1.25	100	20/100
1.0-1.1	0.3	23	1.20	100	20/100
1.0-1.5	0.6	18	1.30	100	20/100
1.015-1.045	0.25	23	1.15	100	20/100
1.02-1.04	0.25	25	1.15	100	20/100
1.02-1.1	0.25	23	1.20	100	20/100
1.022-1.54	0.6	18	1.30	100	20/100
1.03-1.09	0.25	23	1.20	100	20/100
1.1-1.65	0.6	17	1.35	100	20/100
1.1-1.7	0.6	16	1.40	100	20/100
1.16-1.61	0.5	18	1.30	100	20/100

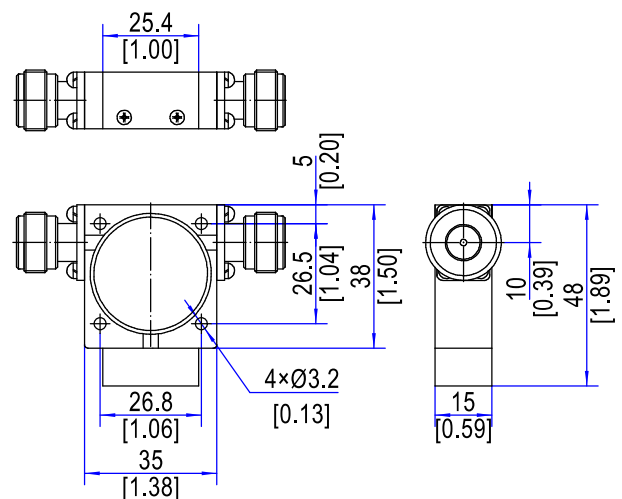
1.2-1.4	0.3	23	1.20	100	20/100
1.2-1.5	0.4	20	1.25	100	20/100
1.285-1.315	0.2	23	1.20	100	20/100
1.29-1.31	0.2	25	1.15	100	20/100
1.3-1.7	0.5	18	1.30	100	20/100
1.35-1.85	0.5	19	1.25	100	20/100
1.4-1.7	0.4	20	1.25	100	20/100
1.5-1.7	0.3	20	1.25	100	20/100
Impedance	50 Ω				
Environmental Specifications					
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-Type Female, SMA Female				
Dimension ¹	Reflected Power 20 W: 35×42×15 mm / [1.38×1.65×0.59 in] Reflected Power 100 W: 35×48×15 mm / [1.38×1.89×0.59 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: 0.3-0.32 GHz, 100 W, N-Type Connector, Reflected Power 100 W.

Model: YSCI100-R3-R32-N-100

Note 1: Excluding connector size.