

YS2CI100-R7-5-N

0.7-5 GHz Dual-Junction Coaxial Isolator, 100 W, 46 dB Isolation

Key Features

- High isolation
- High reverse power handling
- Low insertion loss
- Excellent VSWR
- Compact, customizable design

Applications

- Radar and EW systems
- Satellite & aerospace communications
- Defense and high-power transmitters
- RF test equipment
- Telecom infrastructure

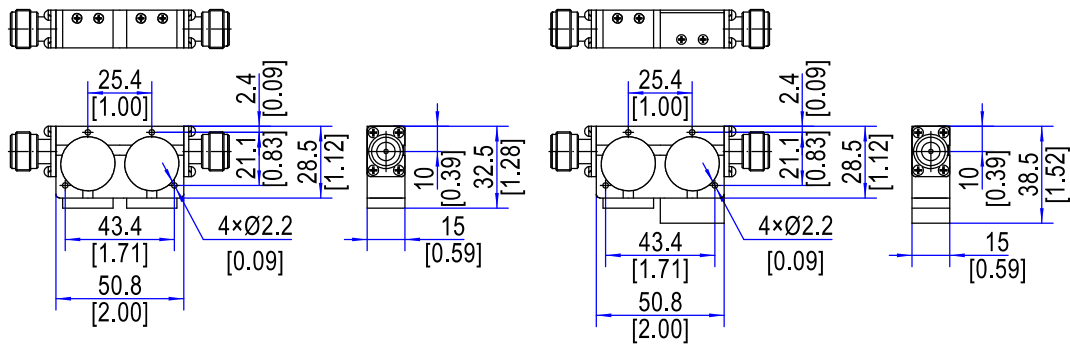
Electrical Specifications

Frequency Range (GHz)	Insertion Loss (dB Max)	Isolation (dB Min)	VSWR	CW Power (w)	Reverse Power (w)
0.7-0.75	0.6	46	1.20	100	20/100
0.7-0.8	0.8	40	1.50	100	20/100
0.7-0.9	1.2	34	1.35	100	20/100
0.703-0.803	0.8	40	1.50	100	20/100
0.75-0.8	0.6	46	1.20	100	20/100
0.75-0.95	1.0	36	1.30	100	20/100
0.8-0.85	0.6	46	1.20	100	20/100
0.8-0.9	0.8	40	1.50	100	20/100
0.8-1.0	1.0	36	1.30	100	20/100
0.82-0.865	0.6	46	1.20	100	20/100
0.82-0.88	0.6	46	1.20	100	20/100
0.83-0.94	0.8	40	1.50	100	20/100
0.85-0.87	0.6	46	1.20	100	20/100
0.85-0.96	0.8	40	1.50	100	20/100
0.851-0.866	0.6	46	1.20	100	20/100
0.86-0.96	0.8	40	1.50	100	20/100
0.865-0.88	0.6	46	1.20	100	20/100
0.869-0.894	0.6	46	1.20	100	20/100
0.87-0.88	0.6	46	1.20	100	20/100
0.89-0.915	0.6	46	1.20	100	20/100
0.88-0.915	0.6	46	1.20	100	20/100
0.88-0.96	0.6	46	1.20	100	20/100
0.885-0.915	0.6	46	1.20	100	20/100
0.9-0.928	0.6	46	1.20	100	20/100
0.92-0.96	0.6	46	1.20	100	20/100
0.869-0.894	0.6	46	1.20	100	20/100
0.87-0.96	0.8	40	1.50	100	20/100
0.93-0.96	0.6	46	1.20	100	20/100
0.95-1.15	0.8	40	1.50	100	20/100
0.96-1.215	1.0	36	1.30	100	20/100

1.0-1.1	0.6	46	1.20	100	20/100
1.03-1.09	0.6	46	1.20	100	20/100
1.1-1.3	0.8	40	1.50	100	20/100
1.15-1.3	0.7	40	1.50	100	20/100
1.15-1.35	0.8	40	1.50	100	20/100
1.2-1.3	0.6	46	1.20	100	20/100
1.2-1.4	0.7	40	1.50	100	20/100
1.29-1.31	1.0	40	1.15	100	20/100
1.3-1.8	1.2	34	1.35	100	20/100
1.35-1.45	0.6	46	1.20	100	20/100
1.35-1.85	1.2	34	1.35	100	20/100
1.4-1.5	0.6	46	1.20	100	20/100
1.4-1.6	0.7	40	1.50	100	20/100
1.4-1.7	0.8	40	1.50	100	20/100
1.44-1.47	0.6	46	1.20	100	20/100
1.45-1.55	0.6	46	1.20	100	20/100
1.5-1.6	0.6	46	1.20	100	20/100
1.5-1.7	0.7	40	1.50	100	20/100
1.5-2.0	1.2	34	1.35	100	20/100
1.6-2.1	1.0	36	1.30	100	20/100
1.61-1.63	1.0	46	1.20	100	20/100
1.7-1.9	0.7	40	1.50	100	20/100
1.7-2.2	0.8	40	1.50	100	20/100
1.7-2.3	1.0	36	1.30	100	20/100
1.71-1.785	0.6	46	1.20	100	20/100
1.8-2.0	0.7	40	1.50	100	20/100
1.8-2.2	0.8	40	1.50	100	20/100
1.8-2.4	1.0	36	1.30	100	20/100
1.805-1.88	0.6	46	1.20	100	20/100
1.88-1.92	0.6	46	1.20	100	20/100
1.9-2.2	0.7	40	1.50	100	20/100
1.92-1.98	0.6	46	1.20	100	20/100
2.0-2.4	0.8	40	1.50	100	20/100
2.0-5.0	1.0	38	1.50	100	20/100
2.0-2.6	1.0	36	1.30	100	20/100
2.1-2.7	1.0	36	1.30	100	20/100
2.1-5.0	0.8	40	1.50	100	20/100
2.11-2.17	0.6	46	1.20	100	20/100
2.2-2.3	0.6	46	1.20	100	20/100
2.2-5.0	0.7	40	1.20	100	20/100
2.3-2.4	0.6	46	1.20	100	20/100
2.3-5.0	0.8	40	1.20	100	20/100
2.3-2.7	0.8	40	1.20	100	20/100
2.4-5.0	0.6	46	1.20	100	20/100

2.4-2.6	0.6	40	1.20	100	20/100
2.4-2.7	0.7	40	1.50	100	20/100
5.0-2.7	0.6	40	1.20	100	20/100
5.055-2.655	0.6	46	1.20	100	20/100
2.6-2.7	0.6	46	1.20	100	20/100
2.6-3.0	1.0	36	1.30	100	20/100
2.6-3.3	1.2	34	1.35	100	20/100
2.7-2.9	0.6	40	1.20	100	20/100
2.7-3.1	0.8	40	1.50	100	20/100
2.7-3.4	1.0	36	1.30	100	20/100
2.8-3.2	0.8	40	1.50	100	20/100
2.9-3.1	0.6	40	1.20	100	20/100
2.9-3.3	0.8	40	1.50	100	20/100
2.9-3.5	0.9	40	1.50	100	20/100
3.0-3.6	0.8	40	1.50	100	20/100
3.1-3.5	0.8	40	1.50	100	20/100
3.2-3.7	0.8	40	1.50	100	20/100
3.3-3.6	0.6	40	1.20	100	20/100
3.4-3.6	0.6	40	1.20	100	20/100
3.4-4.2	1.0	38	1.50	100	20/100
3.55-3.65	0.6	46	1.20	100	20/100
3.6-3.8	0.6	46	1.20	100	20/100
3.6-4.0	0.6	40	1.50	100	20/100
3.7-3.9	0.6	46	1.20	100	20/100
3.7-4.2	0.9	38	1.50	100	20/100
Impedance	50 Ω				
Environmental Specifications					
Operating Temperature	-30°C to +70°C, -40°C to +85°C Please consult with a sales engineer to verify all specifications within the operating temperature range of -40°C to +85°C.				
Storage Temperature	-50°C to +90°C				
Mechanical Specifications					
Connectors	SMA Female, N-Type Female				
Dimension ¹	Reflected Power 20 W: 50.8×32.5×15 mm / [2.00×1.28×0.59 in] Reflected Power 100 W: 50.8×38.5×15 mm / [1.18×1.52×0.59 in]				

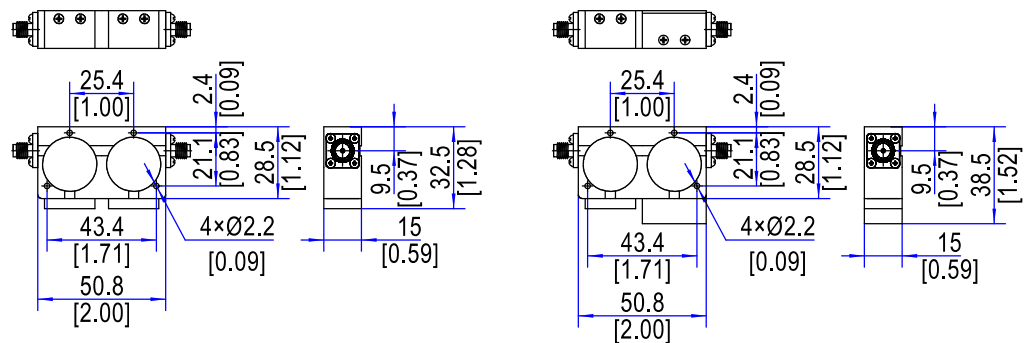
Outline Drawing (Units: mm/[inch], Tolerance: ± 0.3 mm)



Maximum Reflected Power: 20 W

Maximum Reflected Power: 100 W

Outline A



Maximum Reflected Power: 20 W

Maximum Reflected Power: 100 W

Outline B

Example: 0.7-0.75 GHz, 100 W, N-Type Connector, Reflected Power 100 W.

Model: YS2CI100-R7-R75-N-100

Note 1: Excluding connector size.