

YSCI150-R7-5-S

0.7-5 GHz Coaxial Isolator, 150 W, 23 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

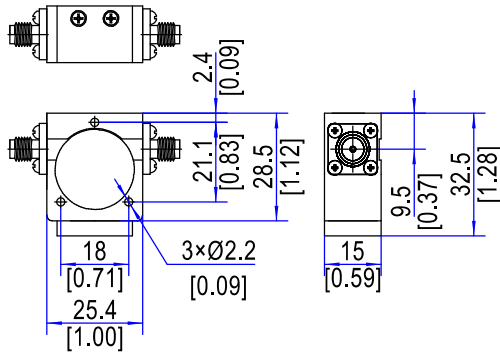
Electrical Specifications

Frequency Range (GHz)	Insertion Loss (dB Max)	Isolation (dB Min)	VSWR	CW Power (w)	Reverse Power (w)
0.7-0.75	0.3	23	1.20	150	20/100
0.7-0.8	0.4	20	1.25	150	20/100
0.7-0.9	0.6	17	1.35	150	20/100
0.703-0.803	0.4	20	1.25	150	20/100
0.75-0.8	0.3	23	1.20	150	20/100
0.75-0.95	0.5	18	1.30	150	20/100
0.8-0.85	0.3	23	1.20	150	20/100
0.8-0.9	0.4	20	1.25	150	20/100
0.8-1.0	0.5	18	1.30	150	20/100
0.82-0.865	0.3	23	1.20	150	20/100
0.82-0.88	0.3	23	1.20	150	20/100
0.83-0.94	0.4	20	1.25	150	20/100
0.85-0.87	0.3	23	1.20	150	20/100
0.85-0.96	0.4	20	1.25	150	20/100
0.851-0.866	0.3	23	1.20	150	20/100
0.86-0.96	0.4	20	1.25	150	20/100
0.865-0.88	0.3	23	1.20	150	20/100
0.869-0.894	0.3	23	1.20	150	20/100
0.87-0.88	0.3	23	1.20	150	20/100
0.88-0.915	0.3	23	1.20	150	20/100
0.89-0.915	0.3	23	1.20	150	20/100
0.88-0.96	0.3	23	1.20	150	20/100
0.885-0.915	0.3	23	1.20	150	20/100
0.9-0.928	0.3	23	1.20	150	20/100
0.92-0.96	0.3	23	1.20	150	20/100
0.87-0.96	0.4	20	1.25	150	20/100
0.93-0.96	0.3	23	1.20	150	20/100
0.95-1.15	0.4	20	1.25	150	20/100
0.96-1.215	0.5	18	1.30	150	20/100
1.0-1.10	0.3	23	1.20	150	20/100

1.03-1.09	0.3	23	1.20	150	20/100
1.1-1.3	0.4	20	1.25	150	20/100
1.15-1.3	0.35	20	1.25	150	20/100
1.15-1.35	0.4	20	1.25	150	20/100
1.2-1.3	0.3	23	1.20	150	20/100
1.2-1.4	0.35	20	1.25	150	20/100
1.29-1.31	0.25	25	1.15	150	20/100
1.3-1.8	0.6	17	1.35	150	20/100
1.325-1.425	0.3	23	1.20	150	20/100
1.30-1.85	0.6	17	1.35	150	20/100
1.4-1.5	0.3	23	1.20	150	20/100
1.4-1.6	0.35	20	1.25	150	20/100
1.4-1.7	0.4	20	1.25	150	20/100
1.44-1.47	0.3	23	1.20	150	20/100
1.45-1.55	0.3	23	1.20	150	20/100
1.5-1.6	0.3	23	1.20	150	20/100
1.5-1.7	0.35	20	1.25	150	20/100
1.5-2.0	0.6	17	1.35	150	20/100
1.6-2.1	0.5	18	1.30	150	20/100
1.61-1.63	0.25	23	1.20	150	20/100
1.7-1.9	0.35	20	1.25	150	20/100
1.7-2.2	0.4	20	1.25	150	20/100
1.7-2.3	0.5	18	1.30	150	20/100
1.71-1.785	0.3	23	1.20	150	20/100
1.8-2.0	0.35	20	1.25	150	20/100
1.8-2.2	0.4	20	1.25	150	20/100
1.8-2.4	0.5	18	1.30	150	20/100
1.805-1.88	0.3	23	1.20	150	20/100
1.88-1.92	0.3	23	1.20	150	20/100
1.9-2.2	0.35	20	1.25	150	20/100
1.92-1.98	0.3	23	1.20	150	20/100
2.0-2.4	0.4	20	1.25	150	20/100
2.0-2.5	0.5	19	1.25	150	20/100
2.0-2.6	0.5	18	1.30	150	20/100
2.1-2.7	0.5	18	1.30	150	20/100
2.1-2.5	0.4	20	1.25	150	20/100
2.11-2.17	0.3	23	1.20	150	20/100
2.2-2.3	0.3	23	1.20	150	20/100
2.2-2.5	0.35	20	1.20	150	20/100
2.3-2.4	0.3	23	1.20	150	20/100
2.3-2.5	0.4	20	1.20	150	20/100
2.3-2.7	0.4	20	1.20	150	20/100
2.4-2.5	0.3	23	1.20	150	20/100
2.4-2.6	0.3	20	1.20	150	20/100

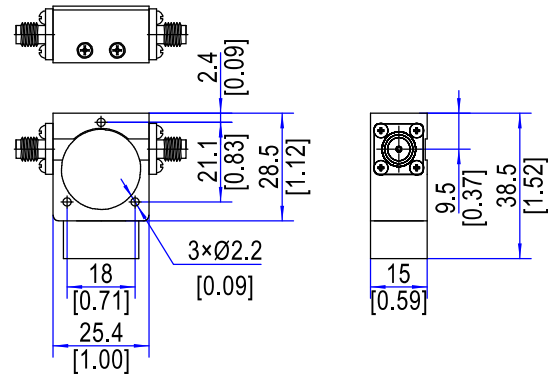
2.4-2.7	0.35	20	1.25	150	20/100
2.5-2.7	0.3	20	1.20	150	20/100
2.555-2.655	0.3	23	1.20	150	20/100
2.6-2.7	0.3	23	1.20	150	20/100
2.6-3.0	0.5	18	1.30	150	20/100
2.6-3.3	0.6	17	1.35	150	20/100
2.7-2.9	0.3	20	1.20	150	20/100
2.7-3.1	0.4	20	1.25	150	20/100
2.7-3.4	0.5	18	1.30	150	20/100
2.8-3.2	0.4	20	1.25	150	20/100
2.9-3.1	0.3	20	1.20	150	20/100
2.9-3.3	0.4	20	1.25	150	20/100
2.9-3.5	0.45	20	1.25	150	20/100
3.0-3.6	0.4	20	1.25	150	20/100
3.1-3.5	0.4	20	1.25	150	20/100
3.2-3.7	0.4	20	1.25	150	20/100
3.3-3.6	0.3	20	1.20	150	20/100
3.4-3.6	0.3	20	1.20	150	20/100
3.4-4.2	0.5	19	1.25	150	20/100
3.55-3.65	0.3	23	1.20	150	20/100
3.6-3.8	0.3	23	1.20	150	20/100
3.6-4.0	0.3	20	1.25	150	20/100
3.7-3.9	0.3	23	1.20	150	20/100
3.7-4.2	0.45	19	1.25	150	20/100
3.75-4.25	0.45	19	1.25	150	20/100
4.0-4.6	0.4	20	1.25	150	20/100
4.4-5.0	0.5	20	1.25	150	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	SMA Female, N-Type Female				
Dimension ¹	Reflected Power 20 W: 25.4×32.5×15 mm / [1.00×1.12×0.59 in] Reflected Power 100 W: 25.4×38.5×15 mm / [1.00×1.52×0.55 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: 0.7-0.75 GHz, 150 W, SMA mm Connector, Reflected Power 100 W.

Model: YSCI150-R7-R75-S-100

Note 1: Excluding connector size.