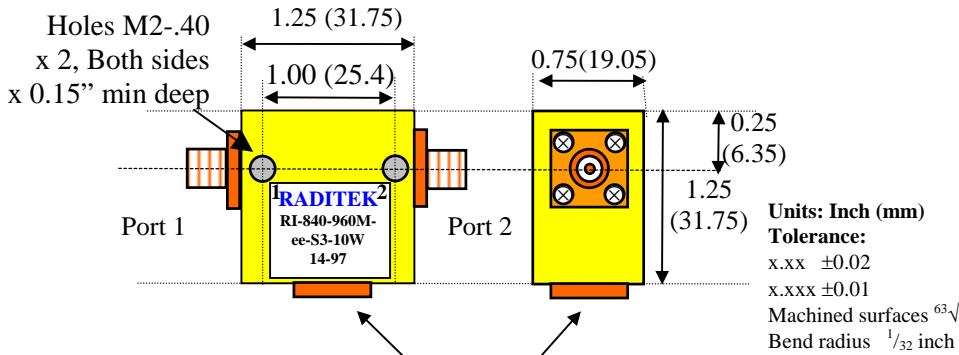


RADITEK

RI-ee1 isolator 120W forward and 35W reverse power*
RC-ee1 circulator 120W forward and 120W reverse power
640MHz-2.5GHz, 10% Bandwidth

SMA and Nf COAXIAL ISOLATORS (RI) AND CIRCULATORS (RC)

RADITEK offers a full range of high performance isolators and circulators. Standard operating temperature is -40 to +85°C. Extended temperatures and power handling with various loads up to 35 Watts available. Ensure Load Flange is kept <85°C*
Bright Nickel-plated finish, with Storage Temp of -55 to 110°C



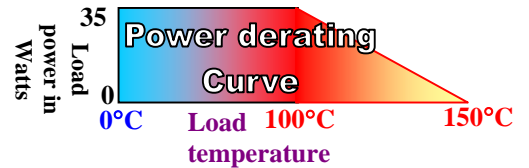
Replaced with connectors for circulator versions
 Most types and gender connectors are available.
 Standard circulation: In at 1, Out at 2 (-R), for In at 2, Out at 1 (-L).
 Not to scale. Units are in inches (mm).
 -U option for lowest IMD.

Connector options (X)				
S: SMAM, SMAf, N: Nf available				
		Iso.	Circ.	Circ.
Port 1	Port 2	Iso.	Port 3 male	Port 3 female
female	male	-1	-11	-21
male	female	-2	-12	-22
female	female	-3	-13	-23
male	male	-4	-14	-24

	Low IMD Models (we can measure)		
Frequency	Parameters	-H	-U
800-960M	Model 2X 50W tones 1MHz Apart	-70 dBc	-75 dBc
1.9-2.2G	Model 2X 30W tones 1MHz Apart	-70 dBc	-75 dBc

Order as: (example) RI-869-894M-ee1-SX-35W
 RI for isolator and RC for circulator, frequency, size, power, connector, direction, options.

Operating Temperature: -20 to 85°C
 *Load temperature to be kept below 85° C



Frequency MHz	Insertion Loss dB Max.	Isolation Min. dB	Ret Loss dB	VSWR Max.		Notes
824-849	0.3	24	23	1.15	*	Cellular
869-894	0.3	24	23	1.15	*	Cellular
900-960	0.4	20	21	1.20	*	Cellular
1805-1880	0.3	23	23	1.15	*	DCS
1930-1990	0.3	23	23	1.15	*	PCS
2110-2170	0.3	23	23	1.15	*	UMTS

Frequency MHz	Insertion Loss dB Max.	Isolation Min. dB	Ret Loss dB	VSWR Max.	Notes
646-730	0.5	18	18	1.3	
690-740	0.5	19	19	1.25	
725-775	0.4	20	19	1.25	
790-950	0.4	20	21	1.20	Jack
790-960	0.4	20	21	1.20	
820-960	0.4	20	20.8	1.20	
800-900	0.4	21	21	1.20	Try 0.3/22/21 9-1-04
800-960	0.45	20	21	1.20	
820-870	0.3	23	19	1.25	
820-900	0.4	20	19	1.25	
824-894	0.4	21	19	1.25	
824-900	0.4	21	19	1.25	
825-835	0.4	23	19	1.25	
835-850	0.3	21	19	1.25	
830-930	0.4	20	19	1.25	IMD 70dBc @ 2x40W
840-860	0.3	25	21	1.20	
840-900	0.4	23	21	1.19	
850-950	0.4	21	21	1.20	
850-1000	0.5	20	20	1.21	
860-900	0.3	25	23	1.15	
860-960	0.4	19	21	1.20	
870-960	0.4	19	21	1.20	
870-970	0.31	21	20	1.21	
875-975	0.31	21	20	1.21	
876-915	0.3	20	21	1.19	
876-960	0.4	19	21	1.20	
890-960	0.4	19	21	1.20	
900-928	0.3	22	21	1.19	
900-960	0.4	20	21	1.20	
900-1200	0.4	16	16	1.38	
902-927	0.3	20	21	1.19	
910-920	0.25	25	21	1.20	
915-964	0.3	23	21	1.20	
917-960	0.3	20	19	1.25	-10 to 75C
920-960	0.3	25	21	1.19	
929-960	0.3	25	21	1.19	
925-964	0.3	25	21	1.19	
936-960	0.3	25	21	1.19	
950-1050	0.3	23	20	1.25	
950-1250	0.4	16	16	1.38	Wide Band
950-1260	0.4	16	16	1.38	Wide Band
950-1280	0.45	15	16	1.38	Wide Band
950-1300	0.5	14	15	1.44	Wide Band
960-1200	0.4	21	21	1.20	
1000-1100	0.3	23	20	1.25	

Frequency MHz	Insertion Loss dB Max.	Isolation Min. dB	Ret Loss dB	VSWR Max.	Notes
1000-1200	0.4	21	21	1.20	
1020-1108	0.3	23	20	1.25	
1025-1225	0.35	21	21	1.20	
1040-1140	0.3	23	19	1.25	
1050-1250	0.4	21	21	1.20	0.3/21/1.2 @ room temp
1100-1300	0.4	21	21	1.20	
1180-1220	0.3	21	21	1.20	
1200-1400	0.35	22	21	1.20	
1200-1415	0.35	22	21	1.20	
1230-1350	0.3	22	21	1.20	
1250-1330	0.3	22	21	1.20	
1270-1282	0.25	22	23	1.15	
1300-1400	0.3	21	21	1.20	
1300-1500	0.4	20	21	1.20	
1350-1550	0.4	20	21	1.20	
1375-1452	0.3	20	20	1.20	
1400-1575	0.5	20	19	1.25	
1400-1700	0.4	20	19	1.25	
1435-1535	0.3	22	23	1.15	
1450-1550	0.3	23	21	1.20	
1450-1650	0.35	20	19	1.25	
1452-1492	0.25	22	23	1.15	
1500-1600	0.3	21	21	1.20	
1500-1700	0.35	20	19	1.25	0 to 55C
1500-1800	0.45	19	19	1.25	-30 to 70C
1570-1580	0.25	22	23	1.15	
1574-1576	0.25	22	23	1.15	
1600-1660	0.3	25	23	1.15	
1646-1661	0.25	25	23	1.15	
1600-1800	0.4	20	21	1.20	
1705-1885	0.31	21	20	1.21	
1700-1840	0.4	20	23	1.15	
1700-1900	0.4	20	21	1.20	Try 0.3/20/21 on 9-4-04
1700-2000	0.4	20	19	1.25	
1700-2200	0.5	19	19	1.25	
1710-1785	0.4	20	23	1.15	
1710-1880	0.4	20	23	1.15	
1710-1900	0.4	20	23	1.15	
1750-1790	0.3	25	23	1.15	
1750-2200	0.5	19	19	1.25	
1800-2000	0.35	20	21	1.20	
1800-2100	0.4	20	19	1.25	
1800-2180	0.5	19	19	1.25	dcs/pcs/umts (19% BW)
1800-2300	1.0	19	19	1.25	
1805-1880	0.35	20	21	1.20	

Frequency MHz	Insertion Loss dB Max.	Isolation Min. dB	Ret Loss dB	VSWR Max.	Notes
1830-2010	0.41	20	21	1.20	
1850-1910	0.3	22	21	1.20	
1850-1950	0.3	22	21	1.20	
1850-1990	0.35	21	21	1.20	
1880-1920	0.2	22	21	1.19	
1900-2100	0.4	20	21	1.20	Try 0.35/21/21 9-1-04
1900-2200	0.5	20	19	1.25	
1900-2300	0.5	20	19	1.25	Wide Band 0 to + 50C
1920-1980	0.25	22	21	1.20	
2000-2200	0.4	20	21	1.20	
2000-2300	0.45	20	19	1.25	Wide Band -0 to + 85C
2110-2170	0.3	23	23	1.15	
2100-2200	0.3	23	23	1.15	
2100-2400	0.4	20	19	1.25	
2150-2250	0.3	23	23	1.15	
2200-2300	0.3	23	23	1.15	
2200-2400	0.3	23	23	1.15	
2250-2450	0.3	23	23	1.15	Special: isolation 25dB from 2.3-2.4GHz (0-50C)
2300-2400	0.3	23	23	1.15	
2300-2500	0.3	23	23	1.15	Use dd1size
2300-2600	0.310	20	20	1.22	Use dd1size
2400-2484	0.3	23	23	1.15	Use dd1size
2400-2500	0.3	23	23	1.15	Use dd1size
2400-2600	0.4	21	21	1.20	Use dd1size
2500-2600	0.35	22	21	1.20	Use dd1size
2500-2700	0.45	21	21	1.20	Use dd1size

This eei size maxes out at 2.4GHz Top Freq, dd1 size takes over