

RI-SS-cd (100-110W) or RI-SS-cc (10-20W) RC-SS-cc Stripline Models 1500MHz-3.9GHz



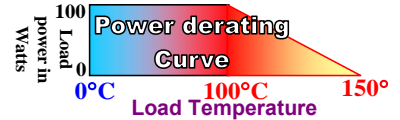
Standard specification examples:

Frequency MHz (F1-F2)	Band	Insertion Loss dB	Isolation dB	Return Loss:	VSWR
1805-1880	DCS	0.29	22	21	1.19:1
1930-1990	PCS	0.29	22	21	1.19:1
2.1-2.17G*	UMTS	0.29	22	21	1.19:1
2.3-2.5G*	WCDMA	0.30	23	21	1.19:1

Circuit tab detail: (silver plated)

Unit	Length	Width cc/cd	Thickness
Inch	0.09	0.025	0.005
mm	2.29	0.64	0.13

Direction of RF:	
R	Default ▶
L	◀



Order Examples: **RI-SS-F1-F2-cd-110WR-TABL-H**

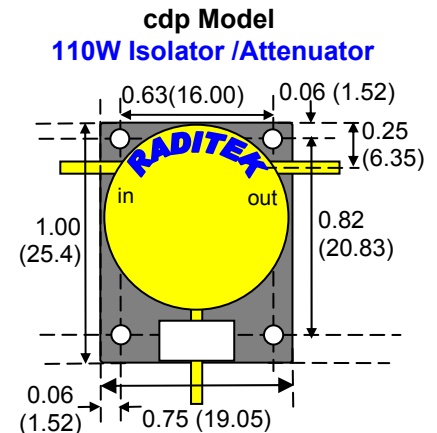
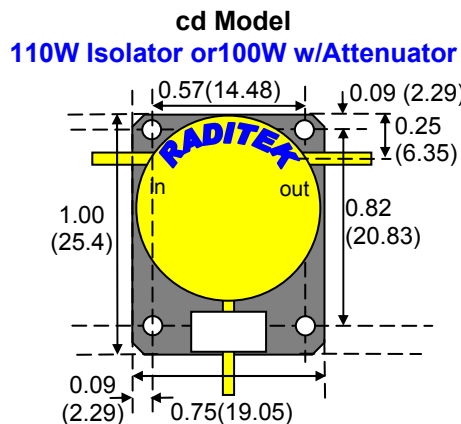
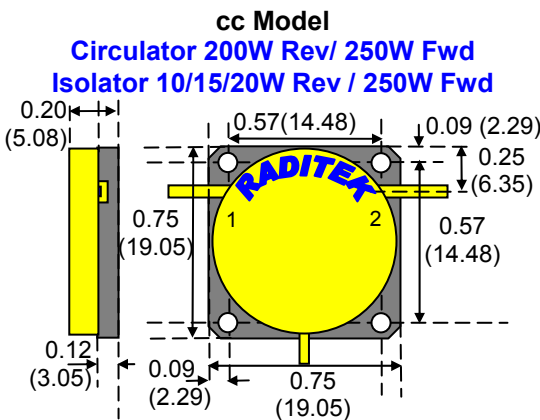
I=ISOLATOR / C=CIRCULATOR

Units: Inch (mm)
Not to scale

See the **RI-TT-de-U** models for best IMD performance

RC-SS-1805-1880M-cc-200WR 200W Forward /100W Reverse power
RI-SS-2.1-2.17-cd-110WR 110W Load Model
RI-SS-2.3-2.5-cd-100WR-A20 100W 20dB Attenuator Model

This unit's performance is guaranteed to far exceed any competition! Other frequencies are available.



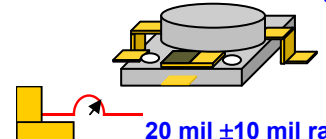
Mounting holes are 0.104" (2.6mm) diameter.

Monitor tab on load is ~ 0.15 (3.8mm) long.

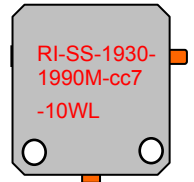
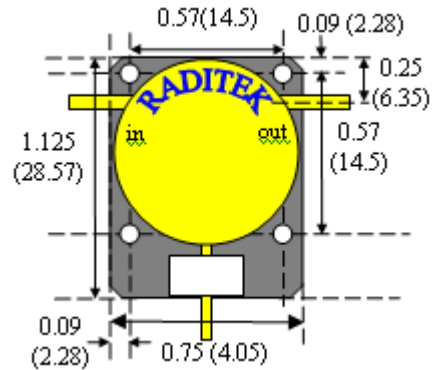
Options:		
Attenuator type	-A20; -A30	20 dB or 30 dB
Surface mount	-S	Tab is level with base, Note: SWpec degrades IL 0.05 to 0.1dB, Isolation 1to 2dB
Special	-Z	Tab ht. is 62 mils (1.58 mm)
Low Intermodulation.	-H	Optimized for best IMD for its size. Typ.: <-63dBc, 2 x 30W tones, 10MHz apart.
Monitor TAB left (right)		available on Isolators < 2.33GHz only
PM: Relative Phase Match	+/-5° max	To a gold standard average from first production run.
General specifications:		
Max. Fwd power:	250 Watts	Average
Max. Rev power (avg): (Load rating)	110 Watts (cd) 10/15/20W (cc)	Assumes infinite heat sink Load temp to be < 85°C
Forward Peak Power	1000 Watts	into a non short circuit load
Operating temp.	-20°C to 85°C	-54°C to 110°C (storage)

Tolerance	.XX	.XXX
Inch	±0.02	±0.010
mm	±0.5	±0.25

Tabs can be bent flush with base for surface mounting "option S" c size strain relief (option):



20 mil ±10 mil radius (0.5±0.25mm)
 Machined surface: $\sqrt[63]{}$
 Housings are made from Aluminum, Magnetically shielded,



cc7 option

cdt -isolator

(150Watt Load and Attenuator option available)

Additional specs for SS-c models

Frequency MHz	BW	Insertion Loss dB Max.	Isolation Min. dB	Return Loss dB	VSWR	@	
1420-1560		0.5	18	18	1.3		0.4/18.5/18.5 at room temp
1430-1540		0.5	20	19	1.25		p
1435-1535		0.5	20	18	1.30		
1500-1600		0.7	16	19	1.25		
1518-1675		0.7	16	19	1.25		
1522-1661		0.6	17	20	1.22		
1600-1750		0.6	17	20	1.22		
1600-1630		0.25	21	21	1.19		
1610-1626		0.4	23	20	1.22	p	
1610-1626.5		0.4	22	20	1.22	TH	approximate SMT 0.45/20/1.25
1620-1660		0.4	22	23	1.15		0.4/23/23 @85C
1626-1660		0.4	23	23	1.15		
1626-1660 -e		0.3 0.4	22 22	20.8 20.8	1.2 1.2	-40 to 75C -55 to 100C	-
1626.5-1660.5		0.4	23	23	1.15		
1626-1661		0.45	19	21	1.19		
1650-1750		0.35	18	19	1.25		
1700-1800		0.35	18	19	1.25	1700-1800M	
1700-1900		0.40	17	20	1.22		
1700-1850		0.35	18	18	1.30		0.3db Goal on cd David Do 6-9-10
1700-2000		0.55	16	18	1.30		0.6/16/18 smt
1710-1785		0.35	18	18*	1.30	Test SO#8818, RFQ# 16539	* RL <2dB Change -40 to 60 C
1710-1790		0.35	18	18	1.30		0.45/17/17 SMT
1710-1850		0.40	18	18	1.30		
1710-1885		0.40	18	18	1.30		
1750-1780		0.25	21	21	1.19		
1750-1810		0.35	21	19	1.25		
1750-1820		0.35	21	19	1.25		
1750-1850		0.30	20	19	1.25		
1750-1885		0.40	19	19	1.25		
1760-1850		0.30	19	19	1.25		
1768-1798		0.35	21	19	1.25	-54 to 71C	

Frequency MHz	BW	Insertion Loss dB Max.	Isolation Min. dB	Return Loss dB	VSWR	@	
1770-1830		0.35	21	19	1.25		
1775-1846	71M	0.30	21	21	1.19		
1775-1846		0.25	21	21	1.19	-55 to +90C	3/27/08
1785-1800		0.25	22	20	1.22		
1785-1805		0.30	22	20	1.22		
1800-1880		0.4	20	19	1.25		p
1800-1900		0.30	21	21	1.19		72300-00004 cdt
1800-2000		0.4	19	19	1.25		
1800-2200		0.4	17	17	1.30		
1805-1880		0.30	22	21	1.19		0.35 @ 95C
1805-1880 -m2		0.35	24	21	1.19		0.32/26/22 @ RT -m2 for bbw
1810-1840		0.29	22	21	1.19		
1830-1880		0.30	21	21	1.20		
1840-1870		0.29	22	21	1.19	H low imd	
1840-1870		0.25	25	23	1.15		Changed 8/5/04
1844.9-1879.9		0.25	25	23	1.1 5		p
1850-2170		0.28	20	20	1.25		Confirmed 3-15-05 SO 5585
1850-1910		0.25	22	21	1.19		
1850-1915		0.3	21	20	1.22		SMT 0.4/20/19
1850-1990		0.40	20	19	1.25	-10 to 85C	0.3/23/1.25 @ RT
1850-1995		0.3	21	19	1.25	WB	SMT 0.4/20/18
1850-2050		0.50	18	18	1.30	-80 to 85C	
1880-1920		0.35	21	20	1.25		
1880-2025		0.50	18	18	1.30		
1890-1930		0.35	21	20	1.25		
1893-1920		0.30	23	21	1.2		
1895-1920		0.30	23	21	1.2		
1900-1915		0.30	25	21	1.2		
1900-1990		0.29	22	21	1.19		
1900-2000		0.30	21.5	21	1.19		
1900-2002		0.30	21.5	21	1.19		4-3-06
1900-2100		0.35	21	19	1.25		
1910-2010		0.30	23	20	1.25		
1920-1980		0.30	23	20	1.22		SMT 0.4/22/19
1920-1995		0.29	22	21	1.19		p
1920-2170		0.45	19	18	1.28		SMT 0.55/18/17
1930-1990 -m2		0.35	24	21	1.19		Provisional specs to be confirmed 0.32/26/22 @ RT -m2 for bbw
1930-1990		0.35	22	21	1.19		
1930-1990		0.29	23	21	1.19	-M	
1930-1995		0.3	22	20	1.22		SMT0.4/21/19
1930-2000	70M	0.35	22	21	1.19		p
1940-1960		0.29	23	21	1.19		
1950-2050		0.30	23	20	1.25		

Frequency GHz	BW	Insertion Loss dB Max.	Isolation Min. dB	Return Loss dB	VSWR	@	
2.0-2.1		0.30	20	20	1.25	20W	-30C to 70C
2.0-2.2		0.45	20	19	1.25		SO 7535 mt confirmed 10/5/07

Frequency GHz	BW	Insertion Loss dB Max.	Isolation Min. dB	Return Loss dB	VSWR	@	
2.02-2.29	270M	0.30	20	18	1.28		-40 to +70, p
2.0-2.3		0.40	20	18	1.28	* 0.45/20/18 -S	SO 4775 confirmed 4-16-04
2.0-2.4		0.50	19	17	1.32		Tested 3-29-05 Yossi
2.0-2.5		0.70	18	16	1.37		SO 4775 confirmed 4-16-04
2.01-2.025	15M	0.30	25	23	1.15	Optimized	Dc 7-2-07
2.02-2.28		0.40	20	18	1.28		
2.025-2.123		0.25	23	19	1.25		
2.050-2.085		0.25	23	19	1.25		
2.06-2.36		0.40	20	18	1.30		
2.07-2.21		0.35	21	19	1.25		
2.1-2.17		0.25	22	21	1.20		
2.09-2.19		0.25	22	21	1.25		
2.1-2.2		0.35	20	20	1.25		04-02-06
2.025-2.25		0.35	21	19	1.25		
2.1-2.3		0.35	18	18	1.30		
2.1-2.4		0.4	18	19	1.25	-30 to +70C	p
2.1-2.5		0.5	19	17.5	1.30		0.6/18/17.5 at 80C (SCD 70121-001-r1)
2.11-2.17		0.25	22	21	1.19	SMT 0.35/21/20	Conf 11-16-04 dc
2.11-2.19		0.25	22	21	1.19		
2.15-2.35		0.35	18	18	1.30		
2.17-2.20		0.3	21	19	1.25		p
2.17-2.32		0.35	18	18	1.30		
2.18-2.48		0.40	20	20	1.20		
2.185-2.485		0.40	20	20	1.20		
2.195-2.215		0.25	22	21	1.19		2204MHz spot freq
2.2-2.3		0.30	24	23	1.15	-20 to +85C	0.4/22/21 for -S
2.2-2.3		0.35	22	21	1.19	-40 to +85C	
2.2-2.35		0.30	24	23	1.15		
2.2-2.4		0.35	22	23	1.15	with Y11-12-sb	EST. 0.4/21/21@-40°C
2.2-2.5		0.50	20	19	1.25		0.55/19/19 for -S
2.2-2.6		0.40	20	19	1.25		
2.2-2.7		0.50	19	18	1.30	-20 to +70C	
2.25-2.32	0.07M	0.35	22	23	1.15		0.5/20/1.25 for -S
2.25-2.35		0.35	22	23	1.15		mt 9-3-09
2.261-2.499		0.40	21	20	1.20		
2.28-2.42		0.3	22	21	1.19		0.25/22/21@ room
2.29-2.4		0.25	23	23	1.15		
2.3-2.4		0.30	24	23	1.15		P .45/22/1.25 for -S
2.3-2.5		0.30	23	21	1.19		
2.3-2.6		0.35	22	20	1.20		
2.35-2.65		0.40	20	20	1.20		
2.3-2.7		0.40	19	20	1.20	dc 3-14-07	0.45 / 18 / 19 for -S
2.375-2.385		0.30	24	23	1.15		
2.33-2.36		0.30	24	23	1.15		
2.35-2.45		0.30	24	23	1.15		
2.40-2.49		0.30	24	23	1.15		p
2.4-2.5		0.30	24	23	1.15	Confirmed 1-25-05	0.4/20/20 for -S (ud 8/3/06)
2.4-2.52		0.30	24	23	1.15		

Frequency GHz	BW	Insertion Loss dB Max.	Isolation Min. dB	Return Loss dB	VSWR	@	
2.45-2.55		0.30	24	23	1.15		
2.4-2.4835		0.30	22	20.8	1.20		-30° + 65°C
2.48-2.5		0.30	24	23	1.15		
2.4-2.6		0.35	22	21	1.19		-s opt 0.45/19/20 conf dc 4-24-07 with -163 cct
2.4-2.7		0.40	20	19	1.25		p
2.4-2.75		0.40	20	19	1.25		
2.4-2.8		0.50	19.5	19	1.25	0.4/20/19 at RT	Mt 2-12-08
2.43-2.47		0.35	22	21	1.19		
2.49-2.7		0.35	20	20	1.20		0.3/20/20 at room temp
2.5-2.69		0.30	20	20	1.20		
2.5-2.7		0.25	20	20.8	1.20		std
2.5-2.7		0.25	28	20.8	1.20	-40 to 65C	IP3 68dbM min // RFQ 15284
2.5-2.9		0.50	18	18	1.30		
2.51-2.57	60	0.3	22	20	1.22	0 to 50C	RFQ 10378
2.6-2.7	100	0.27	21	20.8	1.20	-20 to 70°C	p
2.6-2.7	100	0.30	20	20.8	1.22	-40 to 20°C	p
2.6-2.7	100	0.35	20	20.8	1.22	70 to 85°C	p
2.6-2.9		0.4	20	20.8	1.20		
2.6-3.0	400	0.50	18	18	1.30		
2.6-3.2	600	0.6	16	16	1.40		Ok, dc 5-30-07, 0.45/17/17 at RT
2.62-2.68	60	0.3	22	20	1.22	0 to 50C	RFQ 10378
2.62-2.69	70	0.3	22	20	1.22		p
2.624-2.673	49	0.23	30	26	1.10	0 to 50C	Wi-Max special circ
2.65-2.66	10M	0.20	35	30	1.07	0 to 50C	p
2.66-2.7	40M	0.3	22	20	1.22		
2.677-2.687	10M	0.20	35	30	1.07	0 to 50C	Wi-Max special circ
2.69-2.91		0.35	21	19	1.25		
2.7-2.9		0.35	21	19	1.25		
2.7-3.0		0.38	22	22	1.25		
2.7-3.1		0.4	21	21	1.20		0.4/21/21@ RT, 0.4/22/22 @85C Confirmed 1/15//07 dc
2.7-3.1 cc 20w load		0.4	19	21	1.20		0.4/19/21@ @85C Confirmed 11/17//08 dc
2.7-3.1		0.35	22	22	1.17		Special for – AO OT -40°C to 85°C
2.7-3.3		1.00	15	15			
2.7-3.5		1.00	15	15		0 to 50C	Wide band
2.75-2.85	100	0.3	20	20.8	1.20		
2.8-3.17	370	0.50	18	18	1.30		
2.8-2.9	100	0.3	20	20.8	1.20	0 to 60C	
2.8-3.2		0.40	22	22	1.17	-20 to 85C	
2.8-3.5		1.00	15	15		0 to 50C	
2.87-3.33		0.3	23	22	1.17	-10 to 90 C	
2.8-3.45		0.8	16	16	1.35	0 to 50C	
2.9-3.1		0.30	22	20.8	1.20		
2.9-3.3	400	0.4	19	19	1.25	@ -20 to 65C	
2.9-3.3	400	0.6	21	21	1.20	@ -20 to 65C	-SP1
2.9-3.4	500						p

Frequency GHz	BW	Insertion Loss dB Max.	Isolation Min. dB	Return Loss dB	VSWR	@	
2.9-3.5	600	0.4	17	16	1.35		Except 0.8/14/12/@2.9 and 0.5/17/16@3.5GHz
2.95-3.05	100	0.3	20	20	1.19		
3.0-3.2		0.40	20	20	1.22		
3.0-3.5	500	0.6	18	18	1.30		0.5/18/18 room temp
3.0-3.4	400	0.5	18	18	1.3		0.6/17/17 for SMT
3.0-3.6	600	0.6	17	17	1.30		p
3.03-3.07	40	0.3	20	20	1.19		p
3.15-3.25	100	0.25	21	23	1.15		dc 3/14/08
3.1-3.3	300	0.3	20	23	1.15		p
3.1-3.4	300	0.3	20	23	1.15		dc 3/14/08 SMT 0.4/19/22
3.1-3.5-AST	400	0.3	20	20	1.25	40° + 85°C typ	
3.1-3.5	400	0.4	20	20.8	1.20	0 to +70	
3.1-3.5	400	0.45	20	20	1.25		0.5/18/1.30 @ -40° + 85°C
3.1-3.6	500	0.55	18	18	1.30		
3.2-3.6	400	0.5	19	19	1.25		0.6/18/18 for -S
3.3-3.4		0.5	20	18	1.30		
3.35-3.45		0.5	20	18	1.30		0.6/19/18 for -S
3.3-3.5	200	0.40	20	20	1.22		
3.3-3.6	300	0.3	21	21	1.19	0.4 Max IL	0.5/19/19 for SMT
3.3-3.8	500	0.4	20	20	1.22	SO 5892 7-21-05	(0.5/20/1.22 @ -45 to +85)
3.3-3.9	600	0.5	18	18	1.3		p
3.325-3.425	300	0.3Typ	21	21	1.19	0.4 Max IL	
3.4-3.6	300	0.3	21	21	1.19	-20 to 85C	0.4/20/20 for SMT
3.4-3.6	300	0.4	20	20	1.22	-40 to 85C	0.5/19/19 for SMT
3.4-3.7	300	0.3Typ	21	21	1.19	0.4 Max IL	Standard,
3.4-3.7-S	300	0.4Typ	21	21	1.19	0.5 Max IL -s	Surface Mount
3.44-3.74	300	0.3Typ	21	21	1.19	0.4 Max IL	0.3/25/21 @ Room Temp
3.4-3.8	400	0.4	20.5	21	1.19		
3.4-3.9	500	0.5	20	20.8	1.2		Code c -30 to 70C
3.4-3.9	500	0.5	19	20	1.25		to 85C 9-1-06
3.5-3.6		0.3	21	21	1.19		
3.5-3.7		0.3	21	21	1.19		0.35/25/1.20 @ Room Temp
3.5-3.8		0.3	23	20.8	1.2		Code c -30 to 70C
3.6-3.8		0.3	21	21	1.19		