DCS-PCS-UMTS

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WCDMA

1620-3700MHz

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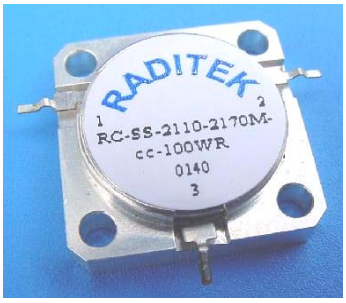
RI-SS-cd Isolator-110W
RC-SS-cc Circulator-200W



Standard specification examples:

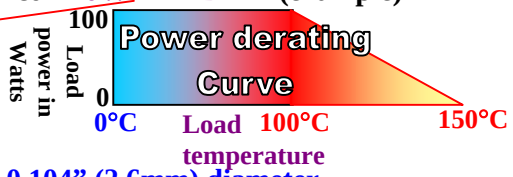
Frequency MHz (F1-F2)	Band	Ins. Loss dB	ISO. dB	Ret. Loss:	VSWR
1805-1880	DCS	0.29	22	21	1.19:1
1930-1990	PCS	0.29	22	21	1.19:1
2.1-2.17G*	UMTS	0.25	22	21	1.19:1
2.3-2.5G*	WCDMA	0.30	23	21	1.19:1

Order as: **RI-SS-F1-F2-cd-110WR-TABL-H (example)**

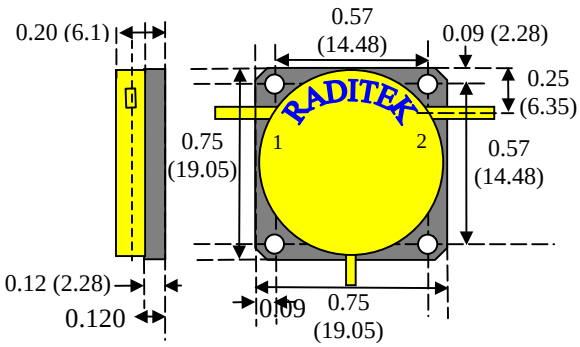
Circuit tab detail: (silver plated)

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

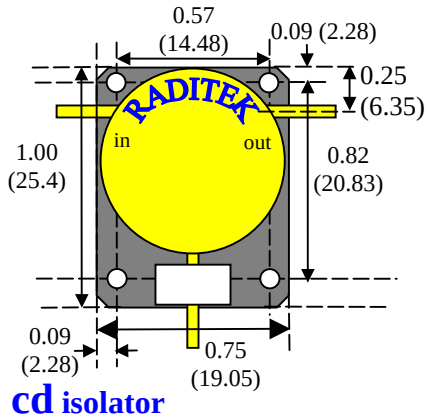
Direction of RF:	
R	default →
L	←



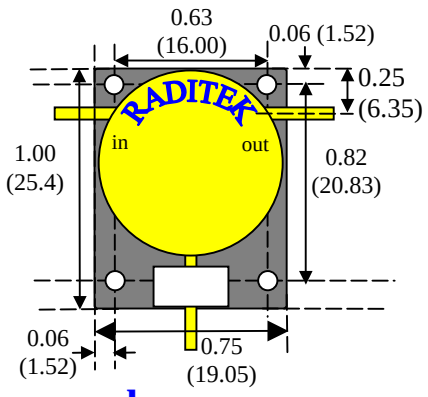
Mounting holes are 0.104" (2.6mm) diameter.
Monitor tab on load is ~ 0.15 (3.8mm) long.



cc Circulator/10W isolator



cd isolator



cdp isolator

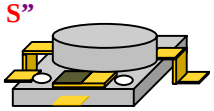
General specifications:		
Max. Fwd power:	**250 Watts**	Average
Max. Rev power(avg): (Load rating)	**110 Watts (cd) 10W (cc) / 20W**	Assumes infinite heat sink Load temp to be < 85°C
Peak Power handling	**1000 Watts**	
Operating temp.	-20°C to 85°C	-54°C to 110°C (storage)

Specification Options:

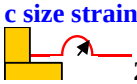
Attenuator type	-A20; -A30	20 dB or 30 dB 100W Rating
Surface mount	-S	Tab is level with base
Special	-Z	Tab ht. is 62 mils (1.58 mm)
Low Intermodulation. **See the RI-TT-de-U models for best IMD performance.**	-H	Optimized for best IMD for its size. Typ.: <-63dBc, 2 x 30W tones, 10MHz apart.
Monitor TAB left (right)	-TABL(R)	See top illustration

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: $^{63}\sqrt{}$
Housings are made from Steel & Aluminum,
Magnetically shielded,
Nickel plated.

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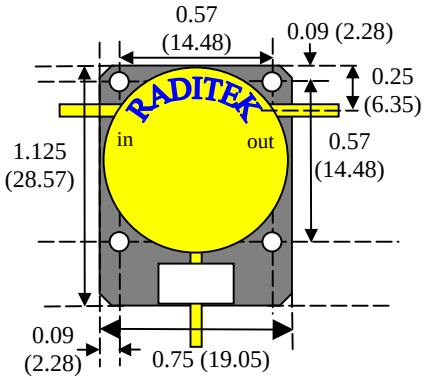
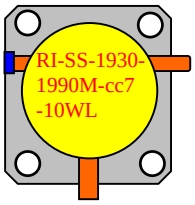


cdt -isolator



cc7 option

Vibration:	20 g, 10~2 KHz
Shock:	100g, 6 msec (half sine)

Additional specs for SS-c models

Freq. Hz		Insertion Loss dB Max.	Isolation Min. dB	Ret Loss dB	VSWR	@	
1626-1661M		0.45	19	21	1.19		
1650-1750M		0.35	18	19	1.25		
1700-1800M		0.35	18	19	1.25	1700-1800M	
1700-1900M		0.40	17	20	1.30		
1700-1850M		0.35	18	18	1.30		
1710-1785M		0.35	18	18	1.30		
1750-1885M		0.40	19	19	1.25		
1750-1780M		0.25	21	21	1.19		
1750-1810M		0.35	21	19	1.25		
1750-1820M		0.35	21	19	1.25		
1750-1850M		0.30	19	19	1.25		
1768-1798M		0.35	21	19	1.25	-54 to 71C	
1700-2000M		0.50	16	18	1.25		
1800-1900M		0.30	21	21	1.19		72300-00004 cdt
1800-2000M		0.35	21	19	1.25		
1805-1880M		0.29	22	21	1.19		
1810-1840M		0.29	22	21	1.19		
1830-1880M		0.30	21	21	1.20		
1840-1870M		0.25	25	23	1.15		Changed 8/5/04
1850-1910M		0.40	20	20	1.25		
1850-1990M		0.40	20	19	1.25	-10 to 85C	0.3/23/1.25 @ RT
1850-2050M		0.50	18	18	1.30	-80 to 85C	
1880-1920M		0.35	21	20	1.25		
1893-1920M		0.30	23	21	1.2		
1895-1920M		0.30	23	21	1.2		
1900-1915M		0.30	25	21	1.2		
1900-1990M		0.29	22	21	1.19		
1900-2002M		0.30	22	21	1.19		
1910-2010M		0.30	23	20	1.25		
1920-1980M		0.30	23	20	1.25		
1920-2170M		0.45	19	18	1.30		
1930-1990M		0.29	22	21	1.19		
1950-2050M		0.30	23	20	1.25		
2.0-2.2G		0.35	21	19	1.25		

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Freq. Hz		Insertion Loss dB Max.	Isolation Min. dB	Ret Loss dB	VSWR	@	
2.0-2.3G		0.40	20	18	1.30		SO 4775 confirmed 4-16-04
2.0-2.5G		0.70	18	16			SO 4775 confirmed 4-16-04
2.02-2.28G		0.40	20	18	1.30		
2.07-2.21G		0.35	21	19	1.25		
2.025-2.25G		0.35	21	19	1.25		
2.09-2.19G		0.25	23	19	1.25		
2.1-2.2G		0.30	21	20	1.25		
2.1-2.3G		0.35	18	18	1.30		
2.1-2.17G		0.25	22	21	1.20		
2.11-2.17G		0.25	22	21	1.20		Conf 11-16-04 dc
2.18-2.48G		.40	20	20	1.20		
2.11-2.19G		0.25	22	21	1.19		
2.15-2.35G		0.35	18	18	1.30		
2.17-2.32G		0.35	18	18	1.30		
2.2-2.3G		0.30	24	23	1.15		
2.2-2.4G		0.30	24	23	1.15		
2.2-2.5G		0.35	24	23	1.15		
2.3-2.4G		0.30	24	23	1.15		
2.3-2.5G		0.30	23	21	1.19		
2.3-2.7G		0.40	20	19	1.25		
2.4-2.5G		0.30	24	23	1.15	Confirmed 1-25-05	0.4/21/21 for –S (1-25-05)
2.45-2.55G		0.30	24	23	1.15		
2.4-2.4835G		0.30	24	23	1.15		
2.48-2.5G		0.30	24	23	1.15		
2.4-2.6G		0.35	22	21	1.19		
2.4-2.75G		0.40	20	19	1.25		
2.4-2.8G		0.40	20	19	1.25		
2.5-2.7G		0.35	22	21	1.19		
2.5-2.9G		0.50	18	18	1.30		
2.6-2.9G		0.50	20	20	1.22		
2.6-3.0G		0.50	18	18	1.30		
2.677-2.678G		0.20	35	30	1.07		Wi-Max special circ
2.69-2.91G		0.35	21	19	1.25		
2.7-2.9G		0.40	20	18	1.30		
2.7-3.0G		0.38	22	22	1.25		
2.7-3.1G		0.40	22	22	1.25		
2.7-3.5G		1.00	15	15			Wide band
2.8-3.2G		0.55	18	18	1.30	-20 to 85C	1-14-03
3.0-3.2G		0.40	20	20	1.22		
3.0-3.5G		0.55	18	18	1.30		
3.1-3.4G		0.40	20	20	1.25		
3.1-3.5G		0.45	20	20	1.25	-40 to +60	
3.4-3.6G		0.3	21	21	1.19		0.3/25/21 @ Room Temp
3.4-3.7G		0.3Typ	21	21	1.19	0.4 Max IL	Standard,
3.4-3.7G-S		0.4Typ	21	21	1.19	0.5 Max IL	Surface Mount
3.44-3.74G		0.3Typ	21	21	1.19	0.4 Max IL	0.3/25/21 @ Room Temp

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3.5-3.6G		0.3	21	21	1.19		
3.5-3.7G		0.3	21	21	1.19		0.35/25/1.20 @ Room Temp
3.5-3.8G		0.3	23	20.8	1.2		Code c -30 to 70C
3.4-3.9G		0.5	20	20.8	1.2		Code c -30 to 70C

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