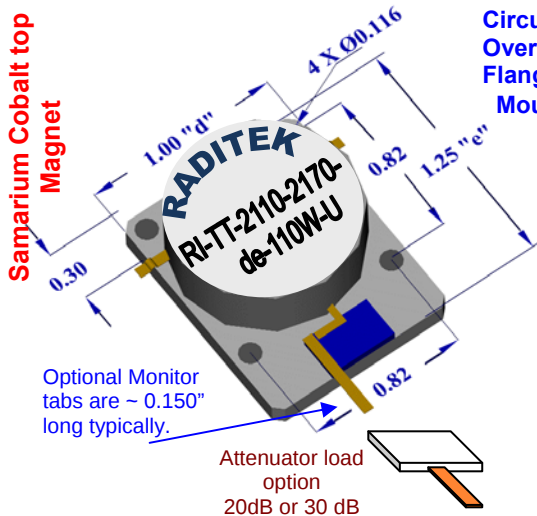


RI, RC-TT-d-U Stripline Models, 700-3300MHz, 10% Bw

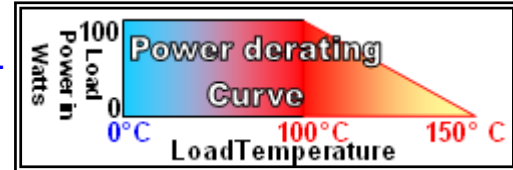
Cellular

Ultra low IMD <80 dBc

WCDMA



Circuit Tab height: 0.15" (3.8mm).
Overall height: <0.40 (10.16mm) (incl. magnet).
Flange Thickness: 0.125" (3.18mm).
Mounting holes Ø: 0.116" (2.95mm)



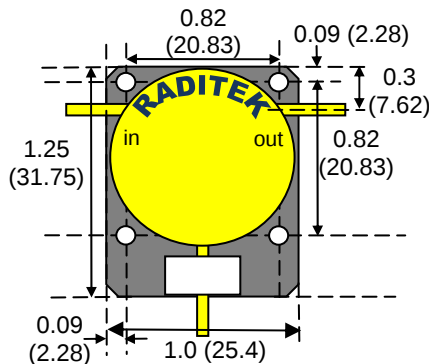
Standard specification examples:

Frequency MHz (F1-F2)	Ins. Loss dB	ISO. dB	Ret. Loss:	VSWR
869-894	0.25, 0.15 typ.	23	21	1.19:1
921-960	0.25, 0.15 typ.	23	22	1.19:1

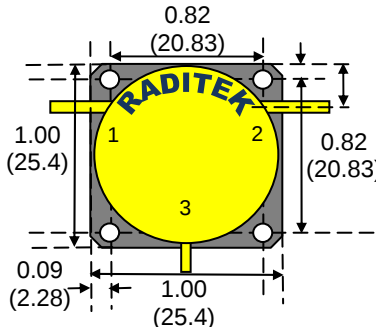
Direction of RF:	
R	Default ▶
L	◀

Order Examples: RI-TT-869-894M-de-110WR-U
I=ISOLATOR / C=CIRCULATOR

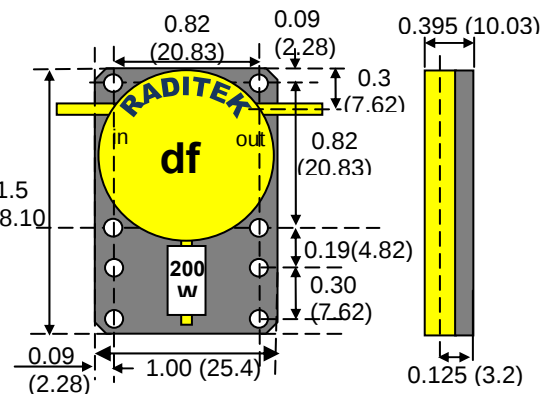
de Isolator Model Shown with attenuator/load



dd Circulator Model Load must have <-30 dB return loss for good IMD)



df Model 200W Isolator



General specifications:

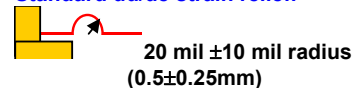
Max. Fwd power:	250 Watts	Average
Max. Rev power(avg): (Load rating)	110 Watts 10W (option)	Assumes infinite heat sink Load temp to be < 85°C
Forward Peak Power	>1 KW Std	into a non short circuit load
Operating temp.	-20 to 85°C	-54°C to 110°C (storage)

Options:

Ultra Low Intermodulation.	U	Optimized for best IMD for its size. Typ.: <-80dBc, 2 x 30W tones, 10MHz apart.
Attenuator type	-A20; -A30	20 dB or 30 dB
Surface mount	-S	Tab is level with base
Special	-Z	Tab ht. is 62 mils (1.58 mm)

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

Circuit Tabs can be bent flush with base for surface mounting "option S" Standard dd/de strain relief.



Machined surface: $\sqrt[63]{}$
Housings are made from Steel
Magnetically shielded,
Nickel plated.

RI, RC-TT-d-U-models

Specifications may be subject to change

06/2513

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Tel: (408) 266-7404

FAX: (408) 266-4483

WEB: www.raditek.com

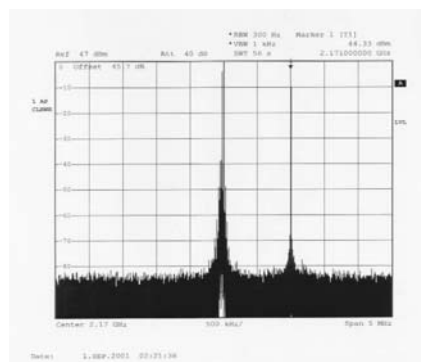
E-mail: sales@raditek.com

RI, RC-TT-d-U Stripline Models, 700-3300MHz, 10% BW

Cellular

Ultra low IMD <80 dBc

WCDMA



IMD 2 x 25W tones,
1 MHz apart at 2.1GHz
<10% BW

Additional Specs for d models

Table 1 Designed and Tested For Ultra Low IMD (within frequency of the IMD Test set)

Freq. MHz	BW%	BW	Insertion Loss dB (max)	Isolation dB (min)	Return Loss dB	VSWR All ports	@	
850-870			0.25	23	21	1.19:1		
859-904			0.4	18	17	1.32:1		dc 3/15/08
850-940			0.35	20	20	1.22:1		
851-866			0.25	23	22	1.17:1		
869-894	2.8%	25M	0.25	23	22	1.17:1		
869-960	9.95%	91M	0.25	20.5	20	1.22:1	RT	0.22/22/21/22.5@ -10 to 80C
882-892			0.25	24	23	1.15:1		
895-910			0.25	23	22	1.17:1		
895-935			0.3	22	22	1.17:1		
921-960			0.3	21	21	1.19:1		
925-960			0.3	21	21	1.19:1		0.3/21/21 dc on 5-2-07
925-965			0.3	21	21	1.19:1		
930-960			0.3	21	21	1.19:1		p
931-941			0.25	24	23	1.15:1		
940-955			0.25	23	22	1.17:1		

RI, RC-TT-d-U Stripline Models, 700-3300MHz, 10% Bw

Cellular

Ultra low IMD <80 dBc

WCDMA

Table 2 Designed For Ultra Low IMD (Not Tested) (outside frequency of the IMD Test set)

Freq. MHz	BW%	BW	Insertion Loss dB (max)	Isolation dB (min)	Return Loss dB	VSWR All ports	@	
790-960	19.4%	170M	0.4	19	20	1.22:1		
860-960			0.3	20	20	1.22:1		
960-1215	23.45	255M						p
1030-1090			0.3	21	21	1.19:1	-20 to 75C	p
1200-1400	15.38%		0.5	19	19	1.25:1		p
1500-1700	12.5%		0.4	19	20	1.22:1		
1805-1880			0.22	23	23	1.15:1		
1930-1990			0.25	21	21	1.19:1		

Low IMD specs apply to units with <10% bandwidth

Table 3 Designed for High Peak Power 60 Watt average, 3KW Peak Power

Freq. MHz			Insertion Loss dB (max)	Isolation dB (min)	Return Loss dB	VSWR All ports	@	
1050-1070		20M	0.3	21	21	1.19:1	-20 to 75C	60 Watt average, 3KW Peak Power
2700-2900	7.14%	200M	0.5	21	19	1.25:1	-20 to 75C	60Watt average, 600W Peak Power, p
2800-3200		400M	0.55	20	18	1.29:1	0-55C	60 Watt average, 3KW Peak Power Customer Target 0.55/20/20/20 from 0-55C
2900-3300		400M	0.6	19	17	1.32	0-55C	125 Watt reverse, 2.5KW Peak Power