

ROHS Compliant

RADITEK INC.

Cellular

Ultra Low IMD

700-1700MHz <80dBc

RADITEK

WCDMA

Samarium Cobalt top Magnet

RADITEK

RI-TT-de-U isolator

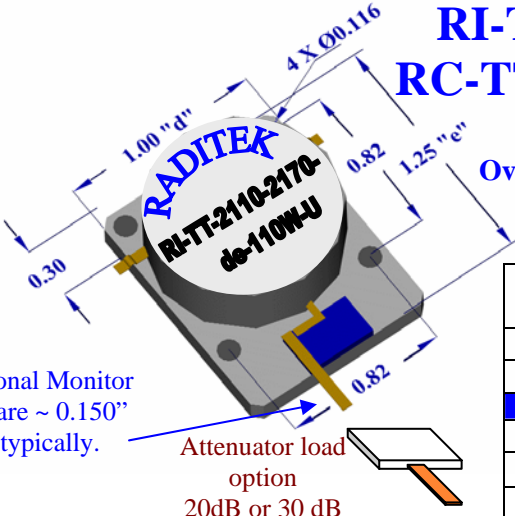
RC-TT-dd-U Circulator

Circuit Tab height: 0.15" (3.8mm).

Overall height: <0.40 (10.16mm) (incl. magnet).

Flange Thickness: 0.125" (3.18mm).

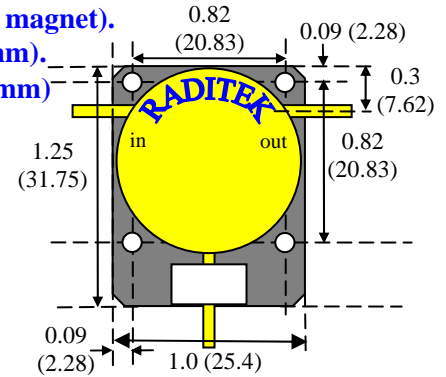
Mounting holes Ø: 0.116" (2.95mm)



Optional Monitor tabs are ~ 0.150" long typically.

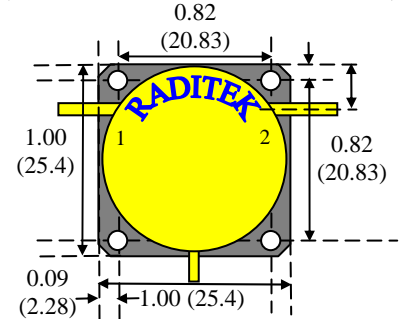
Attenuator load option
20dB or 30 dB

Unit	Length	Width dd/de	Thickness
Inch	0.09	0.055	0.005
mm	2.29	1.4	0.13
Tolerance		.XX	.XXX
Inch		±0.02	±0.010
mm		±0.5	±0.25



de Isolator inch (mm)

(Shown with attenuator/load)



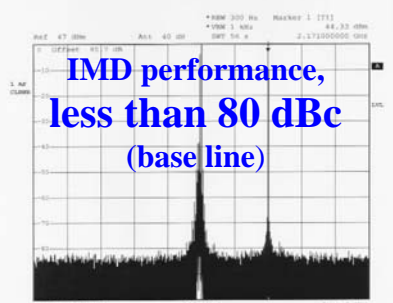
dd Circulator (Load must have <-30 dB return loss for good IMD)

Standard specification examples:

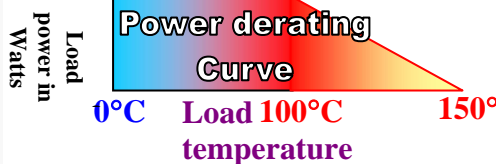
Frequency MHz (F1-F2)	Ins. Loss dB	ISO. dB	Ret. Loss:	VSWR
869-894	0.25, 0.15 typ.	23 dB	21	1.19:1
921-960	0.25, 0.15 typ.	23	22	1.19:1

Order as: RI-TT-F1-F2-de-110W-U-R(example)

Direction of RF:	
R	default →
L	←



2 x 25W tones, 1 MHz apart at



Circuit Tabs can be bent flush with base for surface mounting "option S"

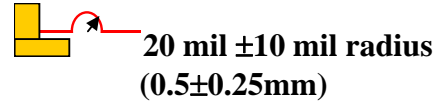
General specifications:

Max. Fwd power:	250 Watts	Average
Max. Rev power(avg): (Load rating)	110 Watts 10W (option)	Assumes infinite heat sink Load temp to be kept < 85°C
Peak Power handling	>3 KW Std	>5 KW Special
Operating temp.	-20°C to 85°C	-54°C to 110°C storage

Specification Options:

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)

Standard dd/de strain relief.



Machined surface: ⁶³√
Housings are made from Steel & Aluminum, Magnetically shielded, and Silver plated.

RI, RC-TT-d-U models

Specifications may be subject to change

02/26/07

WORLD HQ: 1702H Meridian Ave. Suite 127, San Jose, Ca 95125, U.S.A.

Telephone: (408) 266-7404 FAX: (408) 266-4483

WEB: www.raditek.com, E-mail: sales@raditek.com

Additional Specs for d models

Table 1 Designed and Tested For Ultra Low IMD

Frequ. MHz	BW %	Insertion Loss dB Max.	Isolation Minimu mdB	Return Loss dB	VSWR All ports	@	
851-866		0.25	23	22	1.19:1		
869-894		0.25	23	22	1.19:1		
882-892		0.25	24	23	1.15:1		
895-910		0.25	23	22	1.19:1		
921-960		0.25	23	22	1.19:1		
925-965		0.25	23	22	1.19:1		
931-941		0.25	24	23	1.15:1		
940-955		0.25	23	22	1.19:1		

Table 2 Designed For Ultra Low IMD (Not Tested)

Frequ. MHz	BW %	Insertion Loss dB Max.	Isolation Minimu mdB	Return Loss dB	VSWR All ports	@	
1500-1700		0.4	19	20	1.22:1		