

UMTS / PSC / DCS

RI, RC-TT-kd-U-Stripline-Models 1700MHz-3.0GHz 10% Bandwidth

This model is a variant of the Kp1 in a de footprint



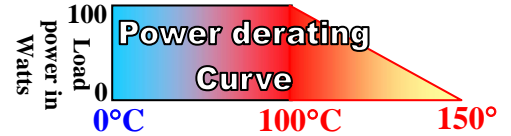
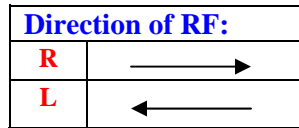
RC-TT-kdd-200w-U-Circulator

RI-TT-kde-110w-U-Isolator

RI-TT-kdf-200w-U-Isolator

Ultra low IMD:
-85dBc target, -82dBc max
@ 2 x 44.5dBm two tones (2x28W)

Mounting holes are 0.110" (2.79mm) diameter.
Tab Height 0.126" (3.2 mm),
Overall height <0.365" (9.27mm)
Flange thickness 0.05" (1.27mm)



Order Examples:

RI-TT-2.11-2.17- kde-110WR-U

110W Load version

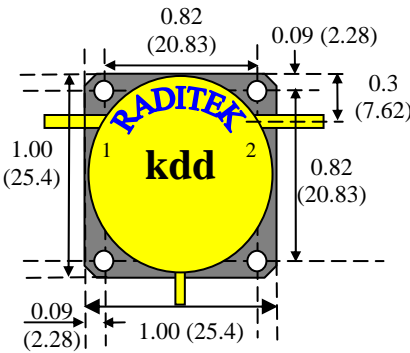
RI-TT-2.07-2.21- kde-100WR-A20U

100W 20dB Attenuator version

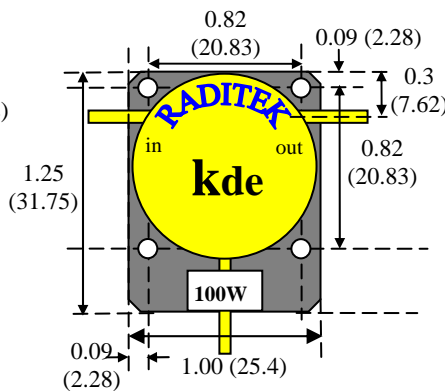
This family was developed to meet the very best possible performance for IMD at the UMTS frequencies. IMD is so low it has to be measured on a filtered/diplexed test set.

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

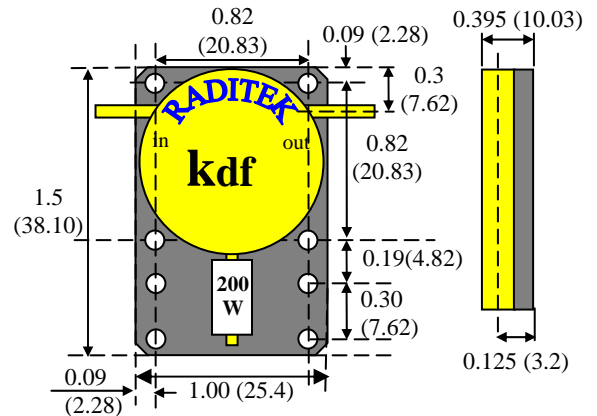
kdd Model
200W Circulator



kde Model
110W Isolator



kdf Model
200W Isolator



General specifications:		
Max. Fwd power:	250 Watts	Average
Max. Rev power (avg): (Load rating)	200 Watts 100 /110 /200 Watts	Assumes infinite heat sink Load temp to be < 85°C
Peak Power handling	>3 KW Std	>5 KW Special
Operating temp.	-20°C to 85°C	-54°C to 110°C (storage)
Options:		
Attenuator type	-A20; -A30	20 dB or 30 dB

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

Circuit tab detail:

Unit	Length Left	Length Right	Width	Thickness
Inch	0.070	0.070	0.06	0.005
mm	1.78	1.78	1.5	0.13

RI, RC-TT-kd-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 K-de models

Table 1 Designed and Tested For Ultra Low IMD

Frequency MHz	BW %	Insertion Loss dB Max.	Isolation Minimum dB	Return Loss dB	VSWR All ports	Full band full temp range, unless specified	
1920-1980	3.1	0.25	23	21	1.19:1		
1920-2000		0.25	22	21	1.19:1		
1930-1990	3.1	0.3	23	21	1.19:1	PCS	
2070-2210	6.8	0.25	21	20.8	1.20:1	0 to 85 °C	
2090-2100	0.5	0.25	22	21	1.19:1		
2110-2170	3.3	0.25	23	22	1.17:1	UMTS	0.23/23/23 at room temp
2100-2200		0.25	22	21	1.19:1		

Table 2 Designed For Ultra Low IMD (Not Tested)

Frequency MHz	BW %	Insertion Loss dB Max.	Isolation Minimum dB	Return Loss dB	VSWR All ports	Full band full temp range, unless specified
1710-1785		.3	23	21	1.19:1	
1715-1742		0.3	23	21	1.19:1	
1785-1805		0.3	23	21	1.19:1	
1805-1880	4.0	0.3	23	22	1.17:1	DCS
1810-1837		0.3	23	21	1.19:1	
1850-1910	3.2	0.3	23	21	1.19:1	
2200-2300		0.25	22	21	1.19:1	Kdf
2270-2305		0.3	21	21	1.19	kdf
2300-2400		0.4	18	18		WCDMA kdd