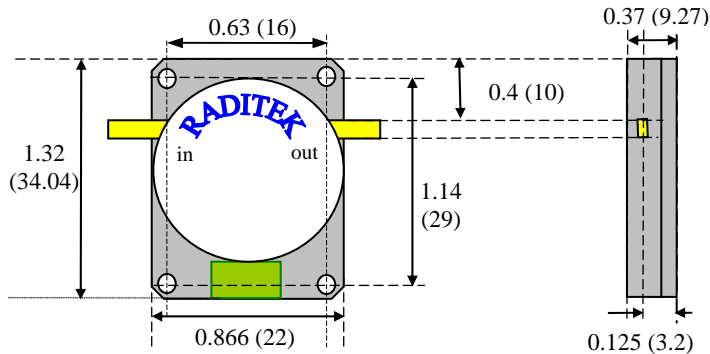


**ROHS Compliant**

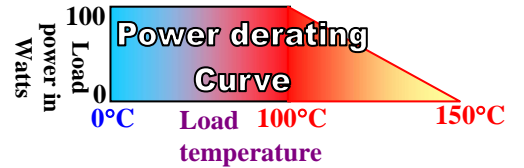
# RADITEK INC.

UMTS  
IMT 2000

## KP1 Ultra low IMD-3G Isolator 2.11-2.17 GHz



**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)**



### KP1 Model

Order as:

RI-TT-2.11-2.17- KP1-110W-R-U

110W Load version

RI-TT-2.11-2.17- KP1-100W-R-A20U

100W, 20dB Attenuator version

This was developed to meet the very best possible IMD performance at the 3G/UMTS frequencies. IMD is so low (typically -90 dBc, 2 x 30W) it has to be measured on a filtered/diplexed test set.

**Other frequencies are available.**

### Typical Specification 0-85°C

Frequency GHz	Band	Insertion Loss dB	Isol. dB	Return loss
2.11-2.17				
Typical:-	UMTS	0.15	24	23
Guaranteed:-	3G	0.25	21	21

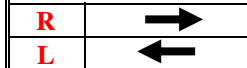
### Circuit tab detail:

Unit	Length Left	Length Right	Width	Thickness
Inch	0.10	0.10	0.06	0.005
mm	2.5	2.5	1.5	0.13

### MAXIMUM specifications:

Max. Fwd power:	250 Watts	Average
Max. Rev power(avg): (Load rating)	100 Watts (cd)	Assumes infinite heat sink Load temp to be < 85°C
Peak Power handling	>3 KW Std	>5 KW Special
Operating temp.	0°C to 85°C	-54°C to 110°C (storage)

### Direction of RF:



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

IMD: -85dBc typical with 2 x 20W tones.

Frequ. Hz	BW %	Insertion Loss dB Max.	Isolation Minimum dB	Return Loss dB	VSWR All ports	Full band full temp range, unless specified	
2.07-2.21		0.3	20	20			IL to be confirmed
2.11-2.17		0.25	21	21			

RI-TT-KP1-U-models

**Specifications may be subject to change**

02/26/07

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