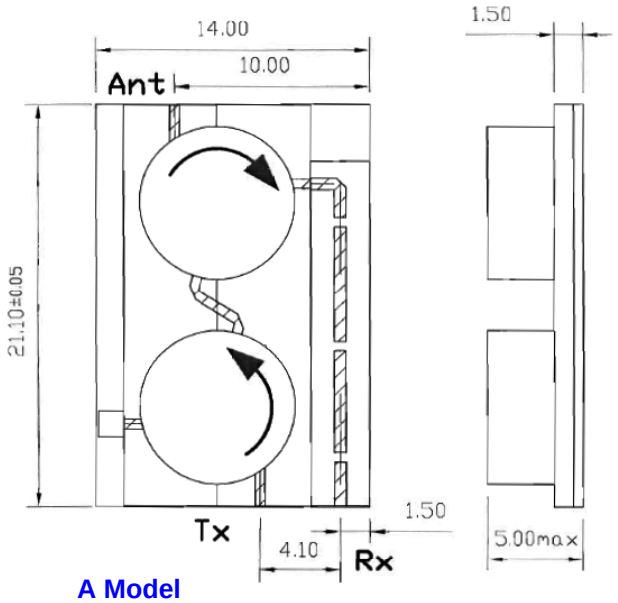
RADITEK INC.

RoHS COMPLIANT

code-e

Microstrip Duplexer (Circulator/ Isolator) with Limiter,

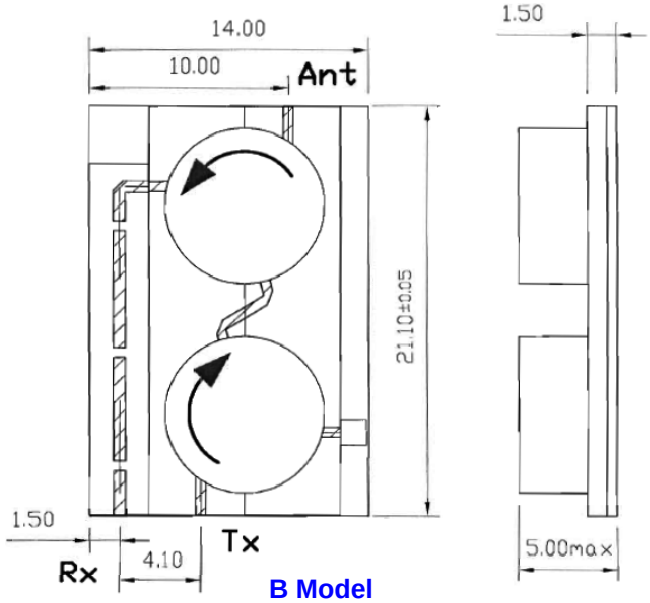
Model A or B, 5.4-5.9GHz, MSDJ Package, 10 Watts



A Model

Tolerance: ±0.25mm

Units: mm
Not to scale



B Model

Order Examples: **RCI-LIM-A-5.4-5.9-MSDJ-10/10W-e**

Option: SP- Fitted Kovar Carrier

Application Notes

1 The devices should be mounted on the NON MAGNETIC carrier or base. The minimal thickness 1mm or use Option: SP- fitted Kovar Carrier
2. Plating: Gold. RoHs compliant.
3. Load and Tuning conductor (97In3Ag) optional location and configuration can vary determined by vendor
4. Humidity 5 to 95% non-condensing.
5. Maximum temperature during welding process +350C @ 25mSec

Specifications	Symbol	Min Value	Max Value	Units
Frequency:		5.4	5.9	**GHz**
Bandwidth			8.85	**%**
Power rating: Average CW **Peak**	**Pavg** **Pp**		10 10	**W** **W**
Operating Temperature	**Top**	-40	+85	**°C**
Storage temp. range	**Tstr**	-40	+85	**°C**
Insertion loss level: TX to Antenna	**IL1**		0.8*	**dB**
Insertion loss level: Antenna to RX	**IL2**		1.2*	**dB**
Return Loss at Antenna &TX ports	**RL1**	18		**dB**
Return Loss at RX port	**RL2**	16		**dB**
Isolation: Antenna to TX	**ISO1**	33		**dB**
Isolation: TX to RX	**ISO2**	18		**dB**
Isolation: RX to Antenna	**ISO3**	18		**dB**
Recovery time (from max. attenuation to -1dB of loss)	**RT**		2	**usec**
Limiter Leakage (Ant = +36dBm)	**LLK**		+12	**dBm**

*** Preliminary**

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