

SEL-3022

Antenna Information

- a) The SEL-3022 complies to part 15.203 of the FCC rules by the use of a Reverse Polarity connector.
- b) The SEL-3022 has 2 antenna options. One is a ½ wave 2.4GHz mobile antenna and the other is a base mounted 2.4GHz antenna.
- The ½ wave mobile antenna is a Mobile Mark PSKN-2400 model with a published 2.3dBi maximum gain. The maximum output power of the Wistron KCJ-1 radio module is 17dBm. Assuming some loss in the cable and connector, the maximum transmitted output power is $17\text{dBm} + 2.3\text{dB} - 0.5\text{dB} = 18.8\text{dBm}$.
 - The base mounted antenna is an Antenex TRAB24003 model with a published maximum gain of 3dBi. Again, subtracting losses in the connectors and cable, the maximum transmitted power is $17\text{dBm} + 3\text{dB} - 1.3\text{dB} = 18.7\text{dBm}$. The maximum output power allowed is 20dBm or 100mW.

c)

<u>Antenna mfr</u>	<u>model</u>	<u>gain</u>	<u>type</u>
Mobile Mark	PSKN-2400	2.3dBi	½ wave dipole
Antenex	TRAB24003	3dBi	field diversity