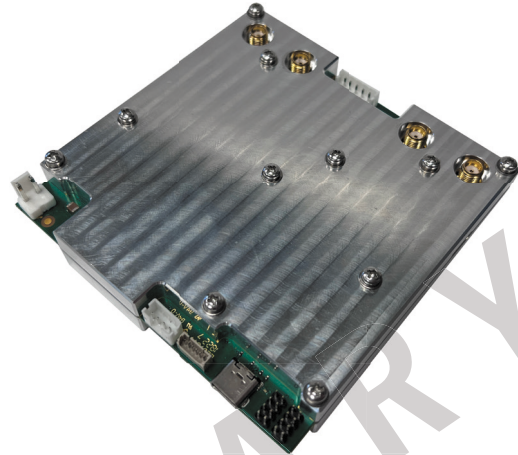
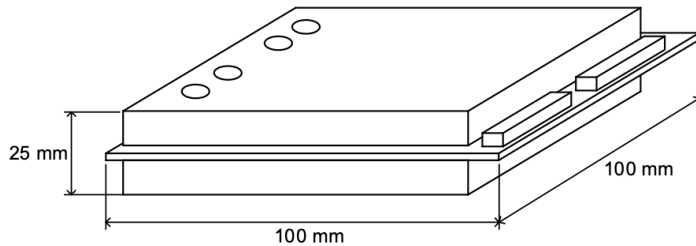


# RIM5055 Radio Imaging Module Preliminary Specs<sup>1</sup>

RIM5055 Software minimum PC system requirements are Windows 7 or higher. Software can be controlled/automated by 3rd party Software via HiSLIP or Socket protocol.



## Preliminary Specifications

<b>Number of switched TX channels (output ports for connecting TX antennas)</b>	2
<b>Method of feeding TX antennas with probing signal</b>	Alternate at each frequency via switch embedded into VNA
<b>Number of RX channels (input ports for connecting RX antennas)</b>	2
<b>RX channels operating mode</b>	Independent of each other, simultaneously
<b>RX to RX channel Cross-talk</b>	Not less than 80 dB
<b>RX to TX channel Cross-talk</b>	Not less than 120 dB
<b>Dynamic range = RX port maximum signal (compression not more than .05 dB) minus RX noise floor @300 kHz IFBW</b>	Not less than 90 dB
<b>TX output port maximum power</b>	Not less than +10 to +20 dB (relative to maximum RX input power)
<b>TX output power adjustment range</b>	Not less than 25 dB (with not more than 3 dB monotonous step)
<b>Frequency point measurement time for 2 TX antennas</b>	Not more than 28 $\mu$ s
<b>Measurement speed (One measurement is defined as a full frequency scan for 2 TX antennas with no more than 350 frequency measurement points)</b>	Not less than 100 measurements per second
<b>Supported calibration methods</b>	1-path 2-port at VNA RX/TX ports
<b>Connector type</b>	SMA
<b>Number of ports for connecting displacement sensor</b>	Not less than 8
<b>Communicating interface*</b>	USB 2.0
<b>Power supply voltage</b>	+9 to +15 V
<b>Power consumption</b>	Not more than 8 W
<b>Operating temperature</b>	-10 to +40 °C
<b>Dimensions (LxWxH)</b>	100 x 100 x 25 mm (see Fig. 3)

Preliminary pricing is \$6,995.