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CERTIFICATE OF COMPLIANCE

E-band Zero Biased Detector

	<p>Model No.: ZBD-12 Serial No.: N-1204/5-p</p>
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1. Specifications:

Frequency range, GHz	60-90
Sensitivity*), mV/mW (typ): @ Rload 1 MΩ, P _{in} = -20dBm	800
Max output voltage, V	1.4
Polarity	positive
Waveguide	WR-12
Flange	UG-387/U
Output connector	SMA female

*) Measured data presented in Fig.1 and Fig.2

ATTENTION:

- Make sure there is not short circuit in video output of ZBD detectors.
- Presence of static electricity between ZBD detector and circuits connected to SMA connector of the detector is inadmissible.

2. Measured data

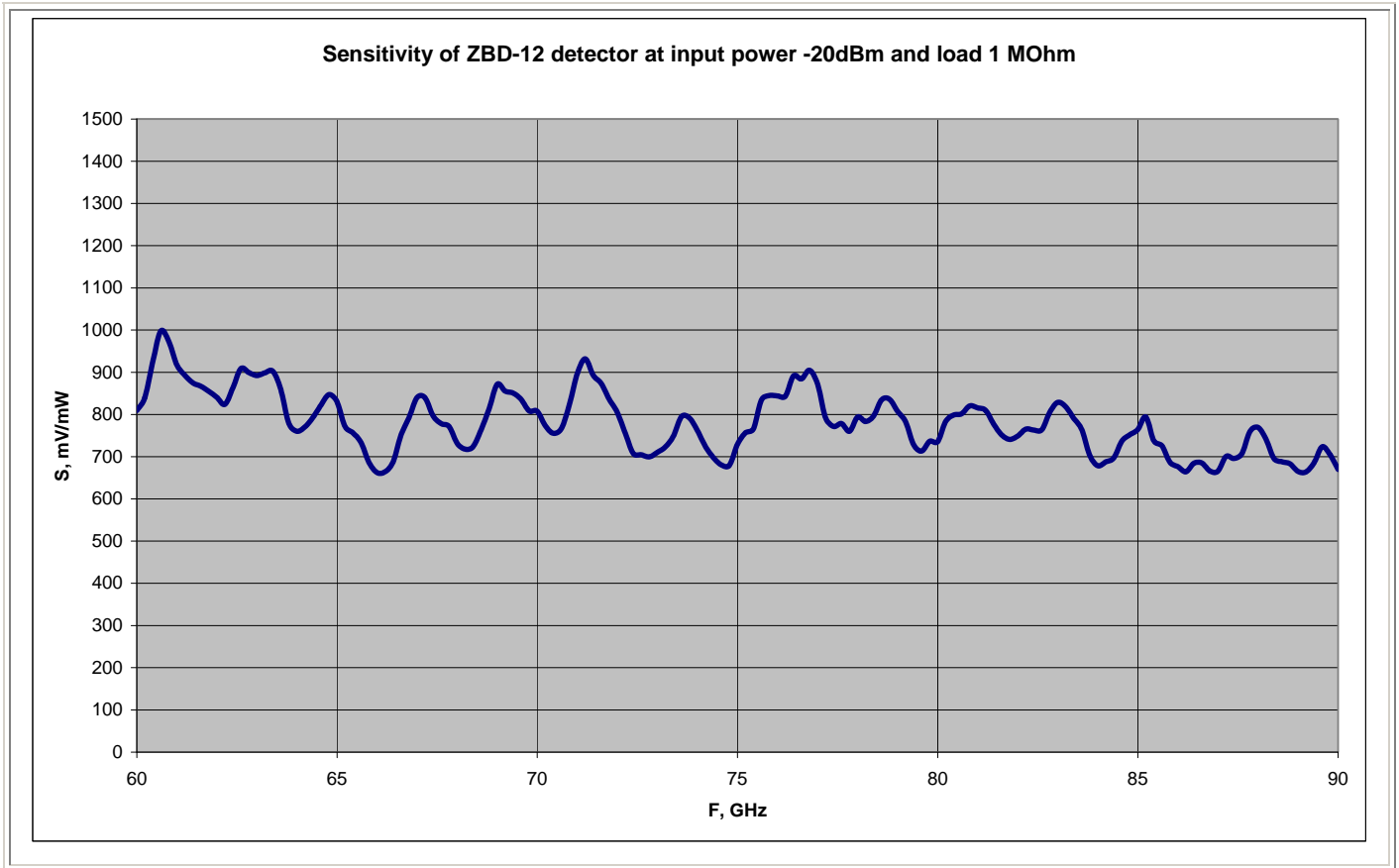


Fig 1.

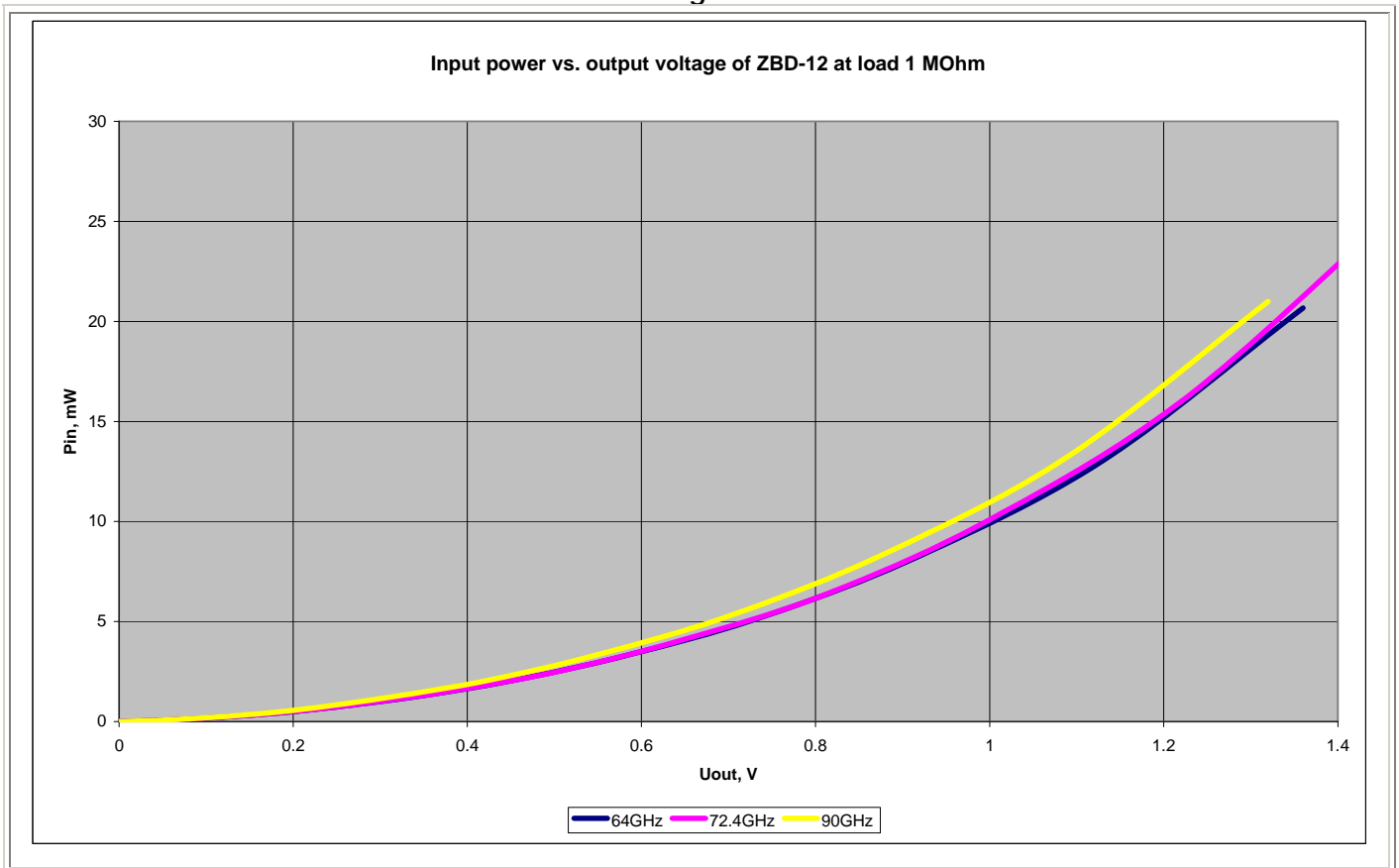


Fig.2.

3. Recommendations

- DO NOT measure output signal directly from ZBD detector using any devices supplied by 220 (or 110) VAC.
- PERFORM direct measurements of the ZBD detector output only with voltmeter used batteries or specially certified equipment.
- DO NOT switch over of the voltmeter modes if the detector is been connected to the device.
- DO NOT switch the detector to voltmeter if mm-wave power into ZBD detector exists.
- It is very useful to use a buffer amplifier (or emitter follower) at output of the ZBD detector. The buffer amplifier must be never disconnected with ZBD detector during measurements.