



Eyal Microwave Ltd.

Phone: 972-9-7499100 Fax: 972-9-7493669

Kibbutz Eyal D.N. Hasharon Hatichon 45840 Israel

Web: www.eyal-emi.com Email: emi@eyal-emi.com



Specifications of 2W Integrated Transceiver

MODEL: TRM-2930

Transmitter

	Specification	Note
Frequency of Operation	29.6 GHz to 30.2 GHz	
RF Output Power	+34 dBm	(P1dB) min
RF Output IP3dB	+42 dBm	(min) (Two carrier, 1 MHz apart, 6 dB down each carrier from rated power) + 41dBm O.T
Small Signal Gain	60 dB	(Typical)
Gain Variation	± 1.5 dB	+/-2.5dB (Over Temperature)
Gain Flatness	± 1.5 dB	(Over any 30 MHz Band)
RF Spurious	≤ -50 dBc	at max rated output
IF Input Frequency	950 to 1550 MHz	
IF Input Power	-20 \pm 5 dBm	

Receiver

	Specification	Note
Frequency of Operation	20.6 GHz to 21.2 GHz	
Noise Temperature	250K max	Over operating temp. range
Small Signal Gain	60 dB Typ	
Gain Variation	± 1.5 Db	± 2 dB Over Temperature
Gain Flatness	± 1.5 dB	Over any 30 MHz Band
Spurious	-60 dBc max	
Image Rejection	50 dB min	
IF Output Frequency	950 to 1550 MHz	
Phase Noise	-82 dBc/Hz at 1 KHz -95 dBc/Hz at 10 KHz	
Ref	10 MHz	(Ext) optional



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General, Mechanical and Environmental parameters

	Specification
Interface Port for TX output port	WR-28; UG-599/U
Interface Port for RX input port	WR-42; UG-595/U
If Interface for signals and ref	SMA (F)
Power Supply	24V DC Typical
Weight	4 Kg max
Dimensions	4000 cubic cm (Typical)
Operating Temperature	-10 to +55 C
Storage temp.	-30 to +70 C
Humidity	100% Condensing