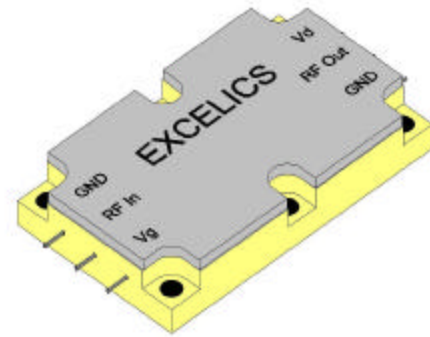


DATA SHEET C-Band 4W Power Module

- **AVAILABLE BAND OPTIONS**
 - 5.9 – 6.4 GHz
 - 5.9 – 6.8 GHz
 - 6.4 – 7.1 GHz
 - 7.1 – 7.7 GHz
 - 7.7 – 8.5 GHz
- **High Output Power** $P_{1dB} = +36.0\text{dBm}$ (typ)
- **High Gain** $G_{1dB} = 24.5\text{ dB}$ (min)
- **Low $IM_3 = -42\text{ dBc}$ @ $P_O = +26.0\text{ dBm}$ (SCL)**
 - EIM5968-01 = -39 dBc @ $P_O = +26.0\text{ dBm}$ (SCL)
- **APPLICATIONS**
 - Digital Radio
 - VSAT (EIM5968-01)
- **Description:**



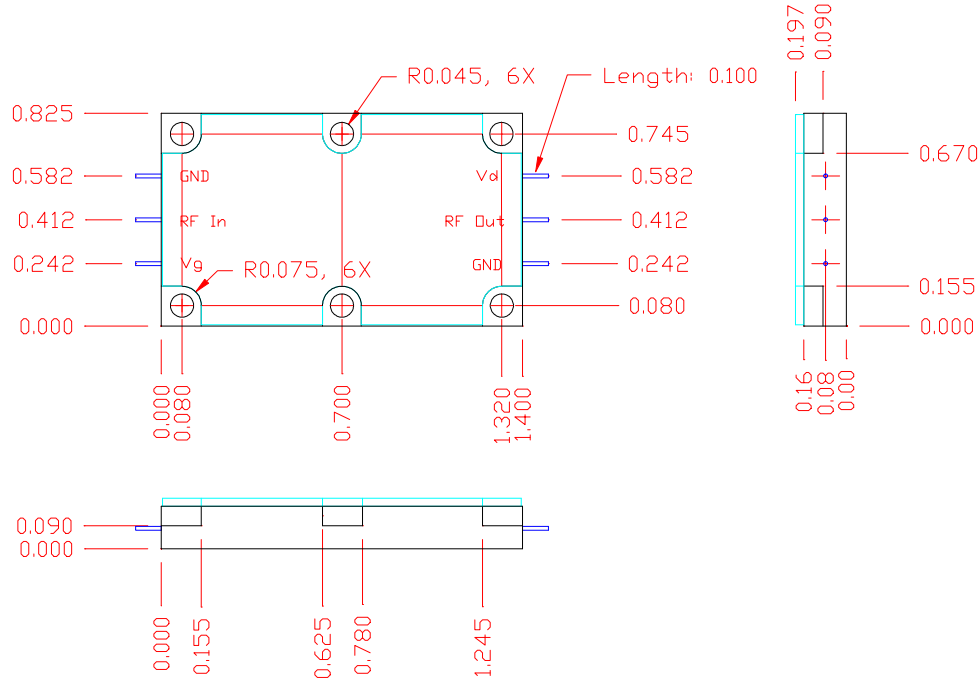
The EIM series of products are high gain pre-matched devices for use in C-band power amplifier applications specifically addressing the needs of the Digital Radio and VSAT system requirements.

This family of products utilizes high performance source via-hole GaAs die technology offering excellent electrical and thermal characteristics.

ELECTRICAL CHARACTERISTICS ($T_a = 25\text{ }^\circ\text{C}$) FOR CONTINUOUS OPERATION

		GHZ	5.9 - 6.4	5.9 - 6.8	6.4 - 7.2	7.1 - 7.7	7.7 - 8.5
P1dB (min)		dBm	35.5	35.5	35.5	35.5	35.5
Small Signal Gain (min)		dB	24.5	24.5	24.5	24.5	24.5
IM ₃ (max) (2 Tone test, 10MHz spacing +26.0 dBm SCL)	Option -01	dBc	-39	-39	-39	-39	-39
	Option -02		-42		-42	-42	-42
Input Return Loss (min)		dB	10	10	10	10	10
Power Supply (typ)	V _G V _D	V/A	10V/2.5A - 5V/60mA	10V/2.5A - 5V/60mA	10V/2.5A - 5V/60mA	10V/2.5A - 5V/60mA	10V/2.5A - 5V/60mA
Package (units are in inches)		1.400 X 0.825 X 0.196, six thru holes for mounting					

ALL PERFORMANCE SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTIFICATION



Units are in inches

ORDERING INFORMATION

Part Number	Grade	f_{Test} (GHz)	P_{1dB} (min)*	IM₃ (max)*
EIM5964-01	Industrial	5.900 – 6.400	35.5 dBm	-39 dBc
EIM5964-02	Industrial	5.900 – 6.400	35.5 dBm	-42 dBc
EIM5968-01 (Extended VSAT)	Industrial	5.900 – 6.800	35.5 dBm	-39 dBc
EIM6471-01	Industrial	6.400 – 7.125	35.5 dBm	-39 dBc
EIM6471-02	Industrial	6.400 – 7.125	35.5 dBm	-42 dBc
EIM7177-01	Industrial	7.100 – 7.700	35.5 dBm	-39 dBc
EIM7177-02	Industrial	7.100 – 7.700	35.5 dBm	-42 dBc
EIM7785-01	Industrial	7.700 – 8.500	35.5 dBm	-39 dBc
EIM7785-02	Industrial	7.700 – 8.500	35.5 dBm	-42 dBc

*Test conditions are specified in the 'Electrical Characteristics' section

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