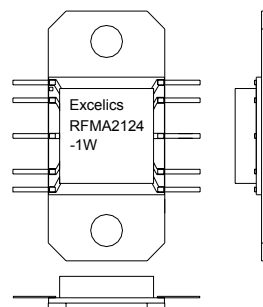


FEATURES

- 21.2 – 23.6 GHz Operating Frequency Range
- 28.5dBm Output Power at 1dB Compression
- 25 dB Typical Power Gain @1dB gain Compression
- -41dBc Typical OIM3 @ Each Tone Pout 18dBm

APPLICATIONS

- Point-to-point and point-to-multipoint radio
- Military Radar Systems



Different packages are available



Caution! ESD sensitive device.

ELECTRICAL CHARACTERISTICS (T_a = 25 °C, 50 ohm, V_{dd}=7V, V_{gg}=-5V)

SYMBOL	PARAMETER/TEST CONDITIONS	MIN	TYP	MAX	UNITS
F	Operating Frequency Range	21.2		23.6	GHz
P _{1dB}	Output Power at 1dB Gain Compression	27	28.5		dBm
G _{1dB}	Gain @1dB gain compression	22	25		dB
OIMD ₃	Output 3 rd Order Intermodulation Distortion @Δf=10MHz, Each Tone Pout 17dBm		-41	-38	dBc
Input RL	Input Return Loss		-10	-8	dB
Output RL	Output Return Loss		-15	-10	dB
I _{dd}	Drain Current		900	1080	mA
V _{dd}	Drain Voltage		7	8	V
V _{gg}	Gate Voltage		-5		V
R _{th}	Thermal Resistance (Au-Sn Eutectic Attach)		7	7.5	°C/W
T _b	Operating Base Plate Temperature	- 30		+ 80	°C

MAXIMUM RATINGS AT 25°C

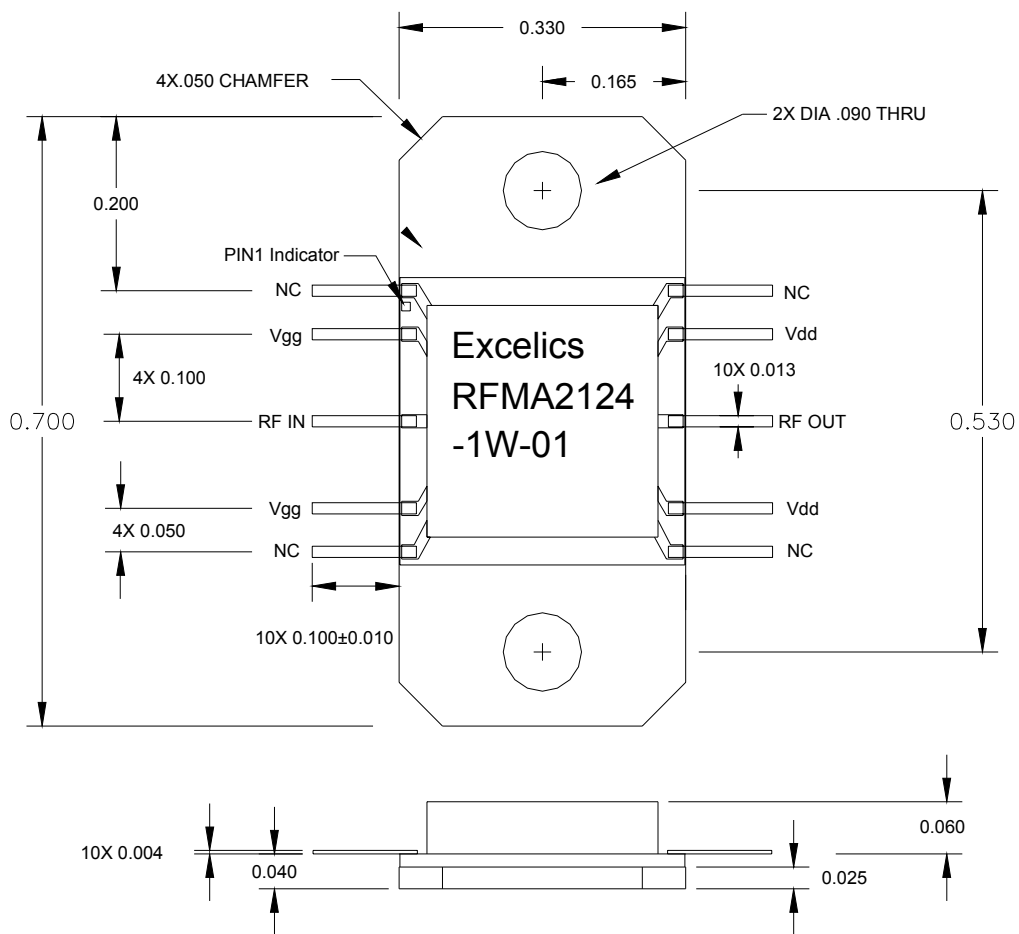
SYMBOL	CHARACTERISTIC	ABSOLUTE	CONTINUOUS
V _{dd}	Drain Supply Voltage	12V	8V
V _{gg}	Gate Supply Voltage	-8V	-3 V
I _{dd}	Drain Current	I _{dss}	1.9A
I _{gg}	Gate Current	132mA	22 mA
P _{IN}	Input Power	20dBm	@ 3dB compression
T _{CH}	Channel Temperature	175°C	150°C
T _{STG}	Storage Temperature	-65/175°C	-65/150°C

1. Operating the device beyond any of the above rating may result in permanent damage.

2. Bias conditions must also satisfy the following equation $V_{dd} \cdot I_{dd} < (T_{CH} - T_{HS}) / R_{TH}$; where T_{HS} = base plate temperature

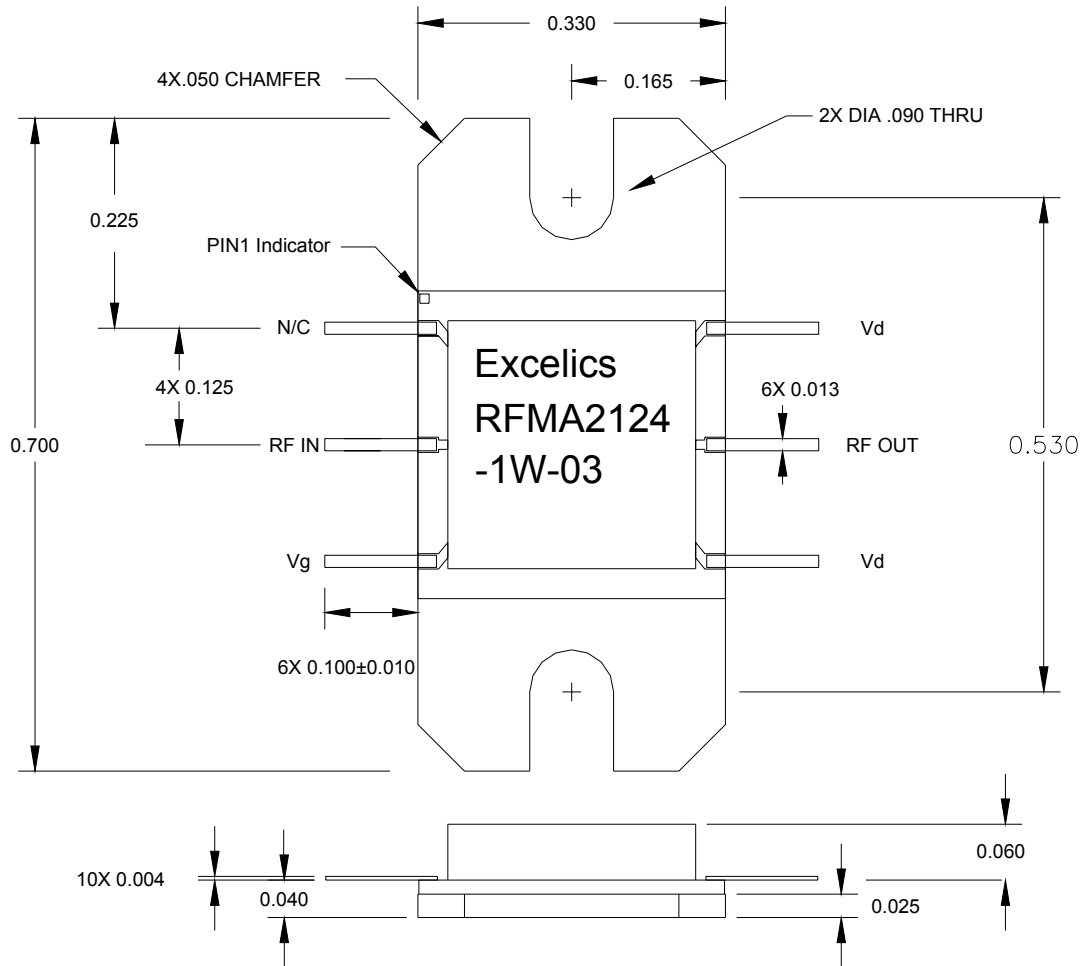
Specifications are subject to change without notice.

01 Package Dimension and Pin Assignment



ALL DIMENSIONS IN INCHES
TOLERANCE: ±0.005

03 Package Dimension and Pin Assignment



ALL DIMENSIONS IN INCHES
TOLERANCE: ±0.005

Ordering Information

Part Number	
RFMA2124-1W-01	Refer 01 Package Outline
RFMA2124-1W-03	Refer 03 Package Outline

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