



- ◆ High IP3 Pallet PA module
- ◆ 290MHZ—450MHZ
- ◆ PA290n ROHS-Compliant

Features

- excellent flatness
 - high IP3, 47dBm typ.
 - low noise figure, 3.0 dB typ.
 - excellent input/output match
 - low DC power consumption
 - small size with 2000x940x276mil (50.8X23.9X7.0mm)
 - flexible configure with DC power and IP3 requirement
- (You can select PA290L, if you need IP3 to 49dBm.)

Applications

- cellular
- catv
- Instrumentation
- TRX broadband IF&RF amplifier

ELECTRICAL SPECIFICATIONS @ +28VDC, 25°C, 50Ω System

Parameter	Symbol	Min	Typ	Max	Unit
Operating Frequency	BW	290		450	MHz
Output Power 1dB compression point	P _{1dB}				dBm
Power Gain	G	26	27		dB
Gain Flatness	ΔG		0.2	0.5	dB
Output-third-order interception point	IP3	45	47		dBm
Output-second-order interception point	IP2				dBm
Input/Output Return Loss	S11/S22		-22	-15	dB
Noise Figure	NF		3.0		dB
Operating Voltage V1	V _{cc1}		5		Volt
Operating Voltage V2	V _{cc2}	9	12	13	Volt
Supply Current @5V	I _{q1}		0.1	0.15	Amp
Supply Current @12V	I _{q2}		0.28	0.35	Amp



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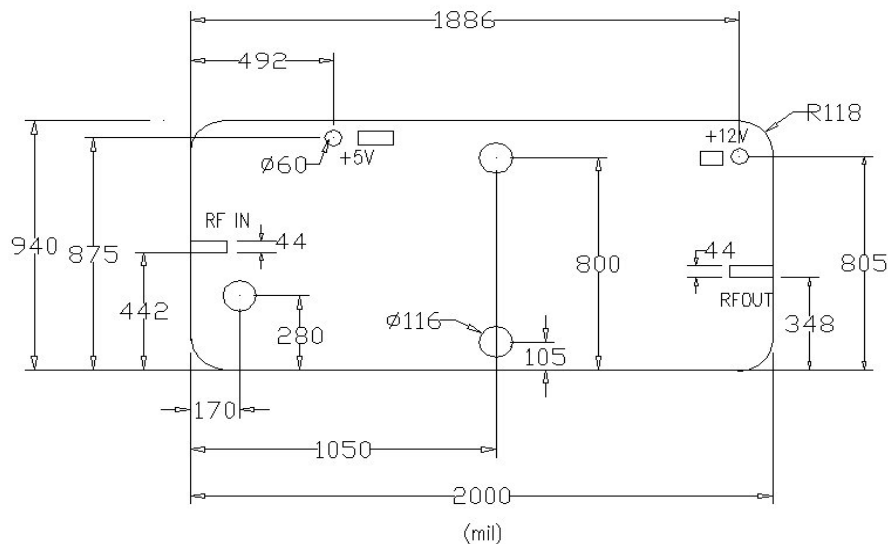
ENVIRONMENTAL CHARACTERISTICS

Parameter	Symbol	Min	Typ	Max	Unit
Operating Case Temperature	Tc	-40		+70	°C
Storage Temperature	Tstg	-40		+85	°C
Relative humidity w/o condensation	RH	95			%
Altitude	ALT	10,000	30,000		Feet
Shock & Vibration	SH / VI		Airborne		

MECHANICAL SPECIFICATIONS

Parameter	Value	Units	Limits
Dimensions	2000x 940 x 276 (50.8X23.9X7.0)	mil (mm)	Max
Weight		lb.	Max
RF Connectors In/Out	Trace		
DC Connectors	Trace		
Pallet +PCB	3mm Cu +0.6mm PCB	3.6	mm
Cooling	External Heat sink		

Outline Drawing



直径116mil, 3个, 用于M2.5的螺丝孔
直径60mil, 2个, 出线用.

Outline Size: 50.8X23.9X7.0 mm