



- ◆ High IP2/IP3 Pallet PA Module
- ◆ 10MHZ—90MHZ
- ◆ PA10 29dB Gain Low DC Dissipation

Features

- excellent Gain flatness, 0.2dB typ.
- high IP3, 47.5dBm typ.
- high IP2, 88dBm typ.
- low noise figure, 3.0dB typ.
- excellent input/output match
- low DC power consumption, 4.66W typ.
- small size with 2400x1150x143mil (61X29.2X3.6 mm).
- flexible configure with DC power and IP3 requirement

Applications

- cellular
- catv
- instrumentation
- TRX broadband IF amplifier

ELECTRICAL SPECIFICATIONS @ 25°C, 50Ω System.

Parameter	Symbol	Min	Typ	Max	Unit
Operating Frequency	BW	10		90	MHz
Output Power 1dB compression point	P _{1dB}				dBm
Power Gain	G	28	29.7		dB
Gain Flatness	ΔG		0.2	0.6	dB
Output-third-order interception point	IP3	46	47.5		dBm
Output-second-order interception point	IP2	80	88		dBm
Input/Output Return Loss	S ₁₁ /S ₂₂		-20	-12	dB
Noise Figure	NF		3.0	4.0	dB
Operating Voltage 1	V _{cc1}		5		Volt
Operating Voltage 1	V _{cc2}		12		Volt
Supply Current @12V	I _{q1}		0.14	0.18	Amp
Supply Current @12V	I _{q2}		0.33	0.40	Amp

Note: IP2 and IP3 testing condition is two-tone, P_{out}=11.2dBm each, 1MHz separation



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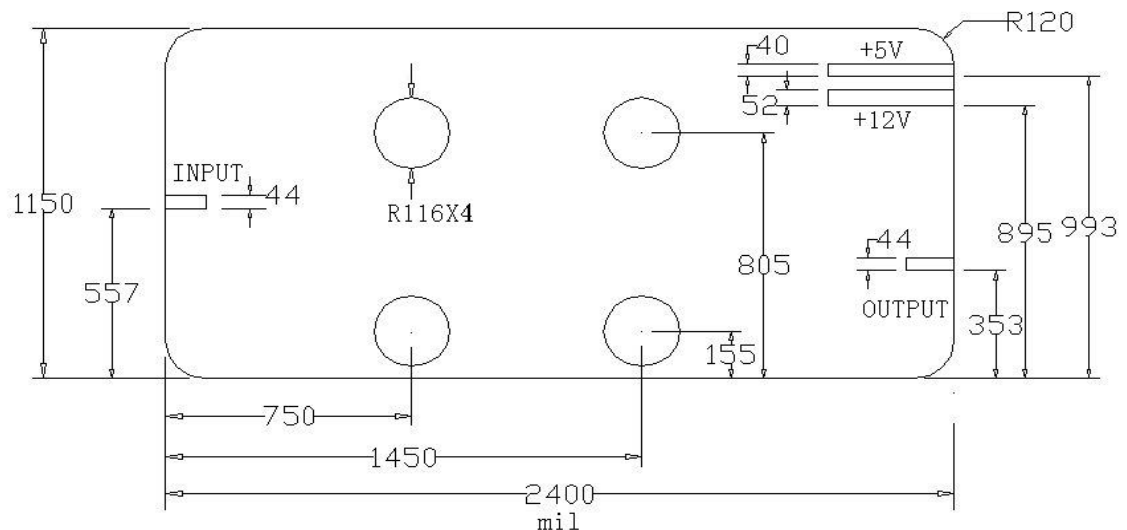
ENVIRONMENTAL CHARACTERISTICS

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 (with copper pallet)	61.0*29.2*3.6	mm	
Weight		lb.	
RF Connectors In/Out	Trace		
DC Interface	Trace		
Pallet	3mm Cu +0.6mm PCB	3.6	mm
Cooling	External Heat sink		

Outline



Outline Size 61.0*29.2*3.6mm