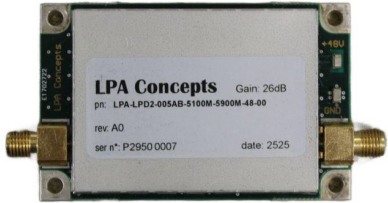
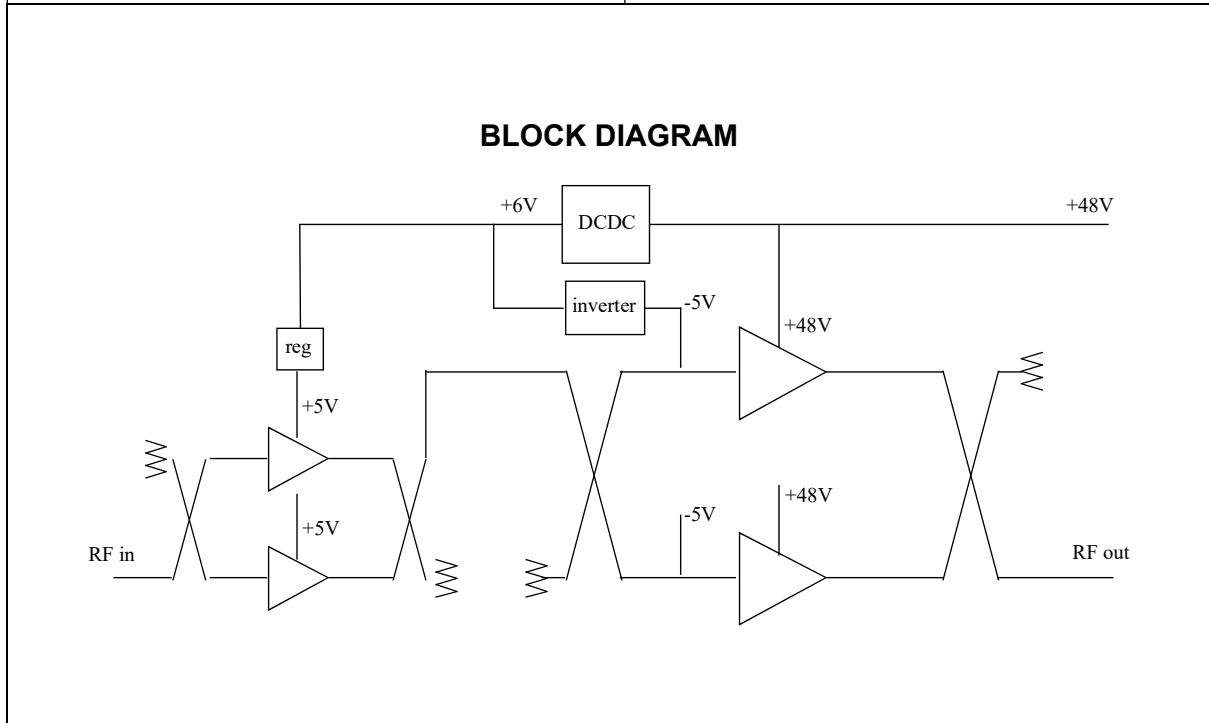


LPA Concepts

LINEAR POWER DRIVER AMPLIFIER	
P2950	LPA-LPD2-004AB-5000M-6000M-48-00
FEATURES <ul style="list-style-type: none"> ◆ 5000-6000MHz ◆ Gain: 26 dB / $P_{pep} = 4W$ ◆ 50Ω input / output ◆ 48V / 80mA idle ◆ 48V / 0.35A @ 4W CW ◆ Aluminum flange ◆ Low cost 	<p style="text-align: center;">PACKAGE</p> <div style="text-align: center;">  </div> <p style="text-align: center;">LPD2 package</p> <p style="text-align: center;">APPLICATIONS</p> <ul style="list-style-type: none"> ◆ General purpose



Specifications and information are subject to change without notice

LPA Concepts

Electrical characteristics: 50 ohms; +48V; -25°C to +80°C (1, 2)

Ref	Parameter	Conditions	Note	Min	Typ	Max	Units
1	Bandwidth			5000		6000	MHz
2	Gain small signal	5500 MHz; 50°C			26		dB
3	Gain variation vs frequency	5000 MHz - 6000 MHz			1	2	dBpp
4	Gain variation vs temperature	-25°C to +80°C	2		3		dB
5	Input return loss	50 ohms				-15	dB
6	Output return loss	50 ohms				-15	dB
7	Peak envelope power	IMD3 = -30 dBc, f=5500 MHz	3	4	5		W
8	Current consumption idle				0.08		A
9	Current consumption 4W	CW frequency 5500MHz			0.35		A
10	Max current	Shut down current			0.42		A

1. Unless otherwise specified
2. Housing temperature
3. 2 CW, tone spacing 5MHz

Maximum ratings

Ref	Parameter	Conditions	Note	Min	Nom	Max	Units
1	Operating temperature	flange temperature		-40°C		+80	°C
2	Supply voltage			46	48	50	V
3	Input peak power					+12	dBm
4	Input average power					+12	dBm
5	Max load VSWR	At 4W output			10:1		

Power Supply DC Connection

Pin description			
Terminal 2 : Supply +48V		SMD LOOP TERMINAL	3.3mm x 1.85mm x 2.0mm
Terminal 1 : Gnd			

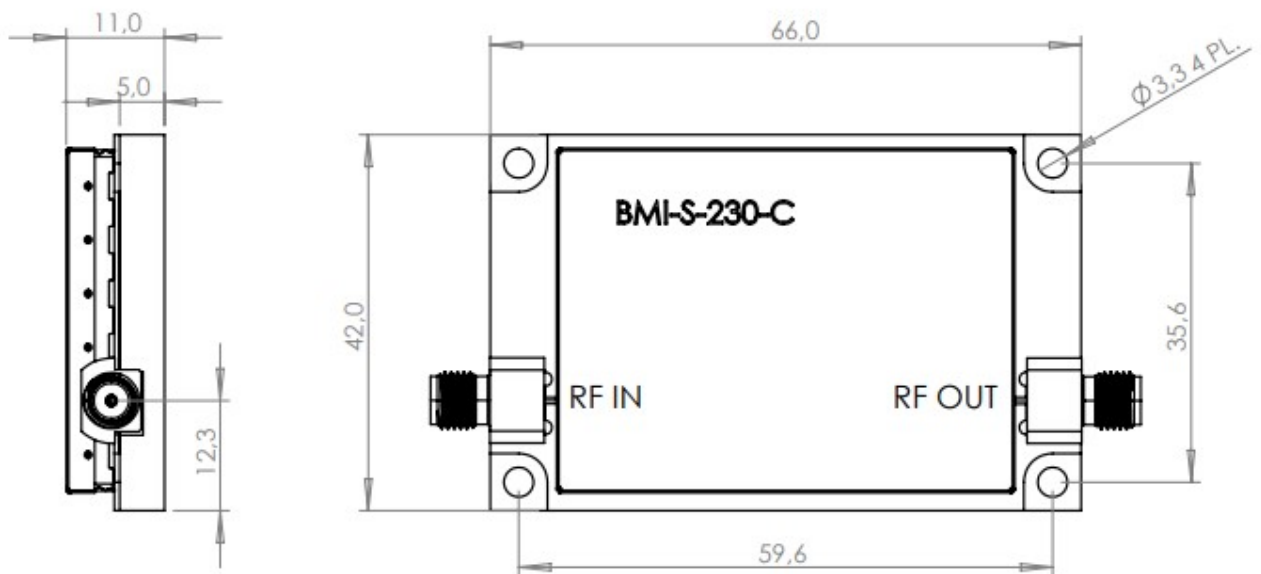
Specifications and information are subject to change without notice

LPA Concepts

Mechanical characteristics

Ref	characteristic	description	remarks
1	Package dimensions	66mm x 42mm x 11mm	
2	Flange dimensions	66mm x 42mm x 5mm	4 x M3 screws for heatsink attach
3	Input/output RF connectors	SMA	
4	DC supply connection	SMD Loop terminal	For hook clip (Minigrabber or Micrograbber)
5	Weight	60 grams	

Package outline:

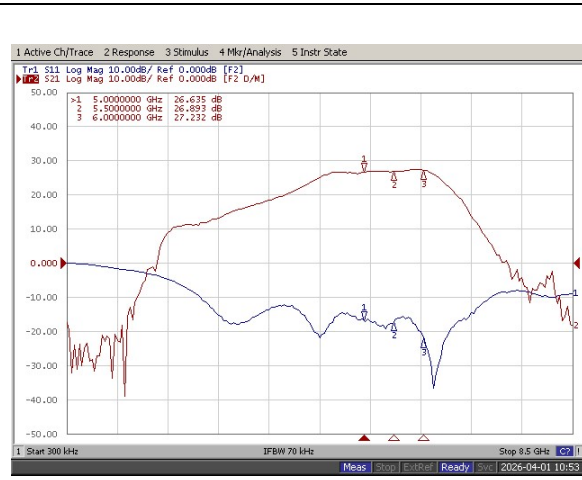


dimensions are in mm

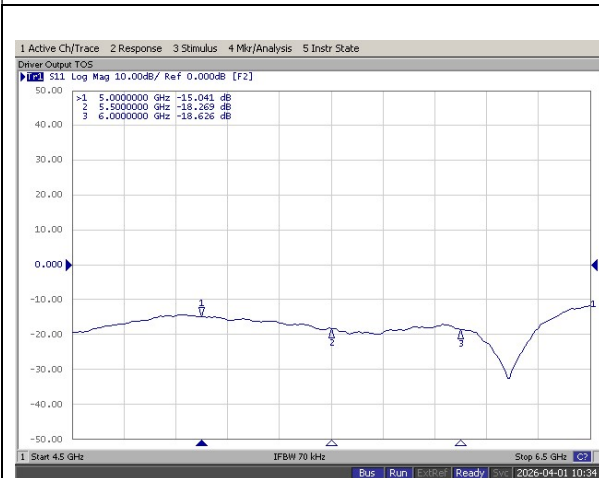
TYPICAL PERFORMANCE



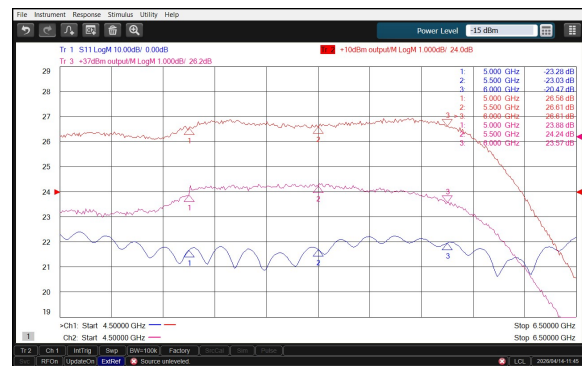
Gain vs Frequency



Wideband gain vs Frequency



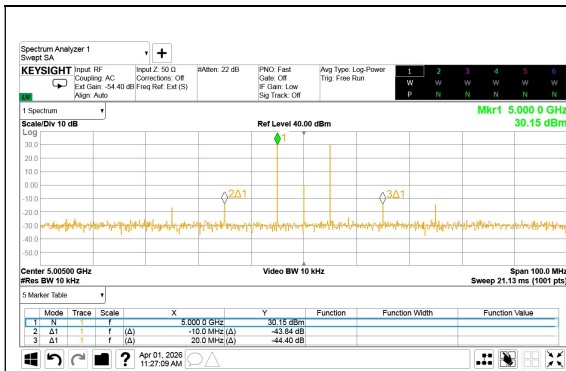
Output Return Loss vs Frequency



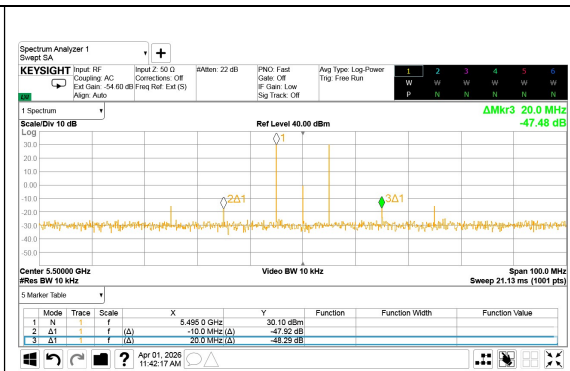
Gain compression at 5W out

Specifications and information are subject to change without notice

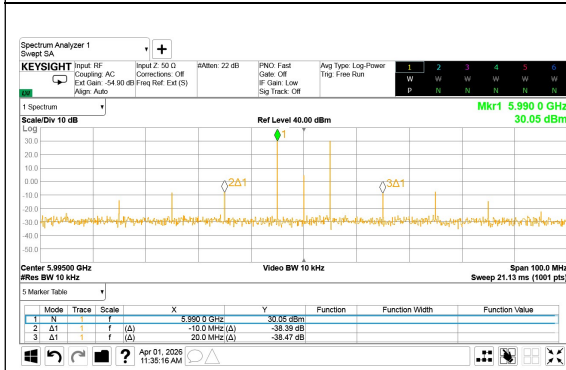
TYPICAL PERFORMANCE (continued)



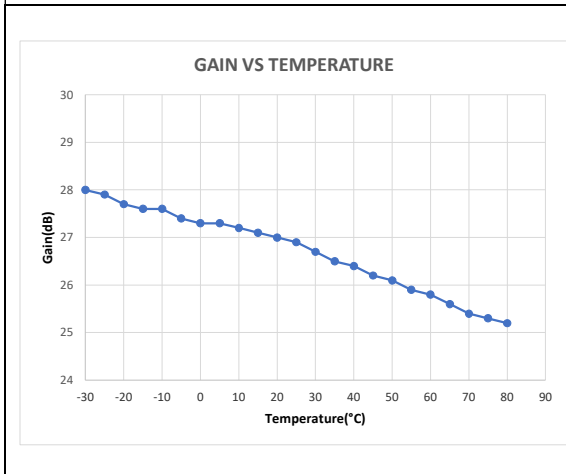
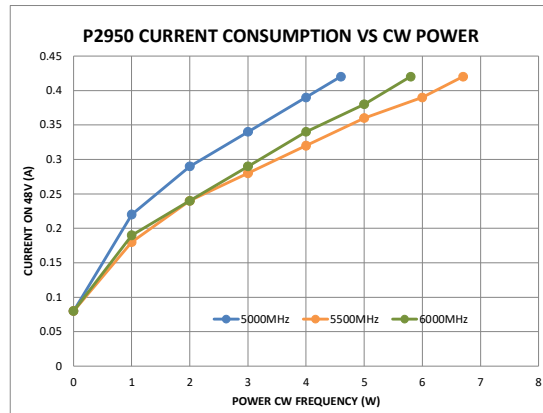
2 tone 5000MHz 2W average



2 tone 5500MHz 2W average



2 tone 6000MHz 2W average



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