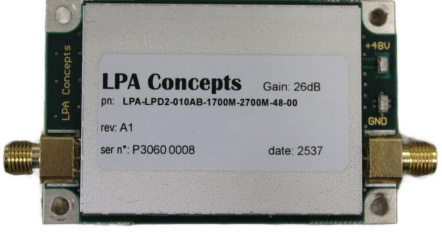
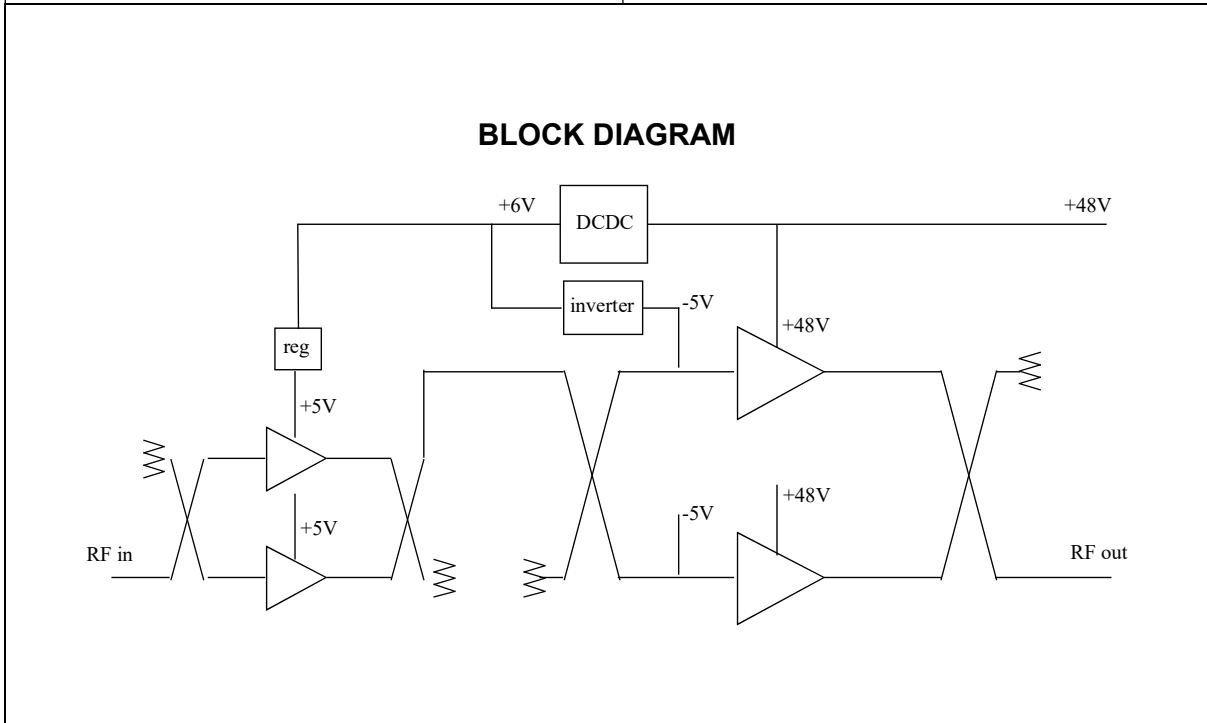


LPA Concepts

LINEAR POWER DRIVER AMPLIFIER	LPA-LPD2-010AB-1700M-2700M-48-00
P3060	
FEATURES <ul style="list-style-type: none"> ◆ 1700-2700MHz ◆ Gain: 31 dB / $P_{pep} = 10W$ ◆ 50Ω input / output ◆ 48V / 100mA idle ◆ 48V / 0.65A at 10W 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			1700		2700	MHz
2	Gain small signal	2200 MHz; 50°C		29	31	33	dB
3	Gain variation vs frequency	1700 MHz - 2700 MHz			1	2	dBpp
4	Gain variation vs temperature	-25°C to +80°C	2		2		dB
5	Input return loss	50 ohms				-15	dB
6	Output return loss	50 ohms				-15	dB
7	Peak envelope power	IMD3 = -30 dBc, f1=2195 MHz f2=2205MHz	3	10	12		W
8	Current consumption idle			0.08	0.1	0.12	A
9	Current consumption 10W	CW frequency 2200MHz			0.65		A
10	Maximum current	Shut down current	4		0.8		A
11	Max temperature	Shut down temperature	5		80		°C

1. Unless otherwise specified
2. Housing temperature
3. 2 CW, tone spacing 5MHz
4. On/Off to reset
5. Auto restart at 70°C

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 10W out			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			

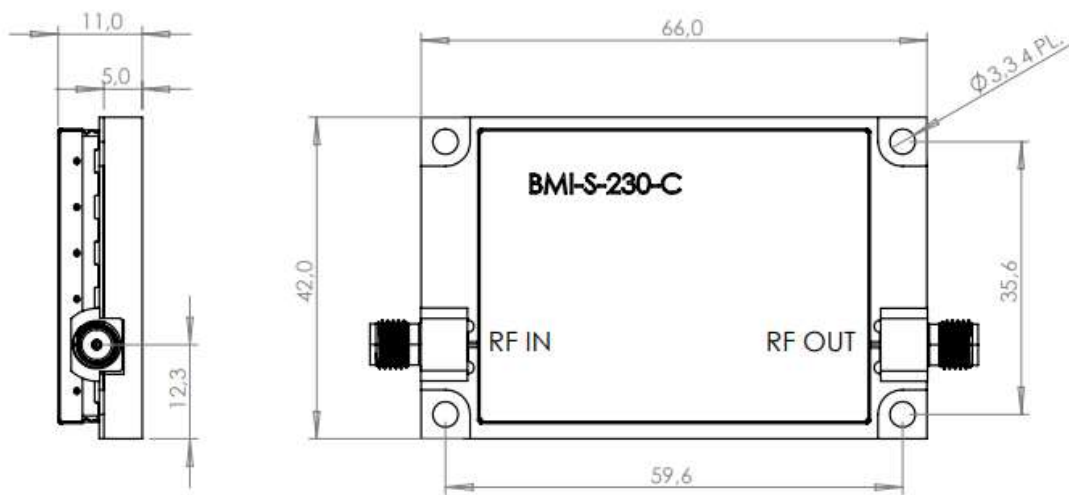
Specifications and information are subject to change without notice

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 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	

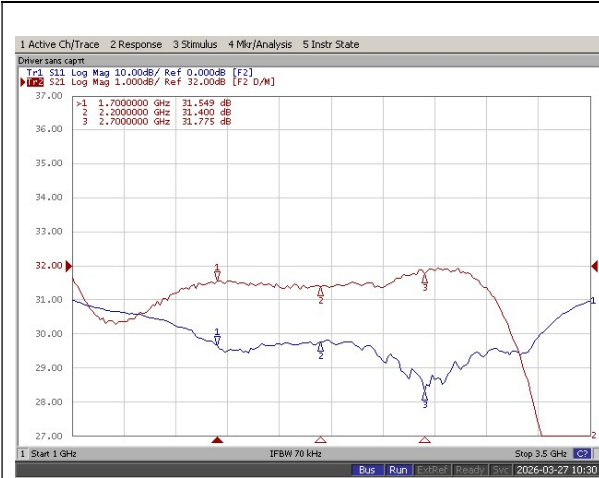
Package outline:



dimensions are in mm

LPA Concepts

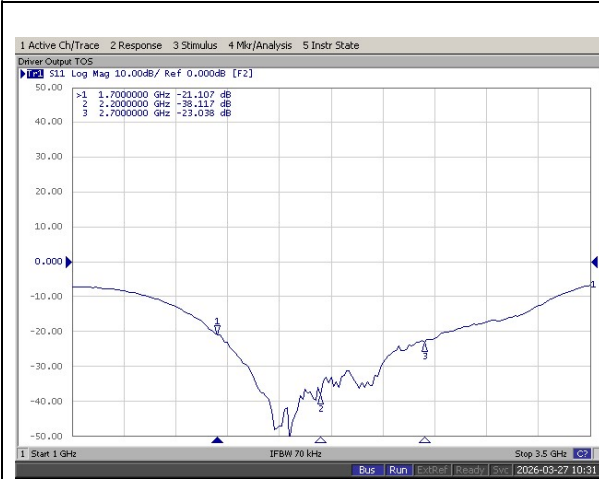
TYPICAL PERFORMANCE



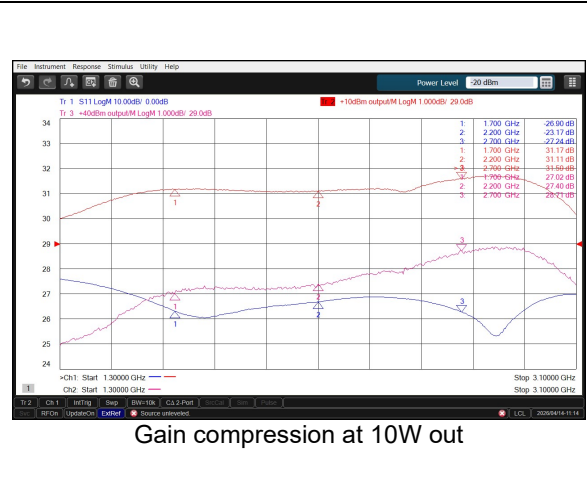
Gain vs Frequency



Wideband gain vs frequency



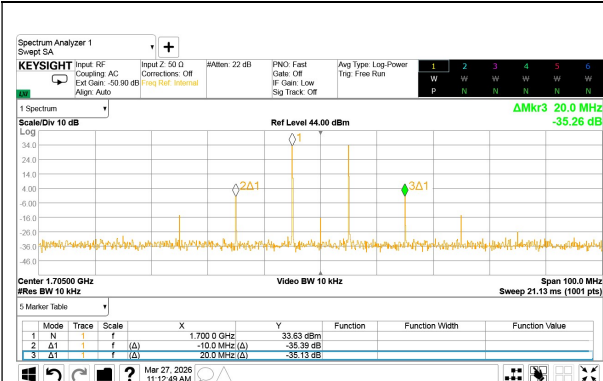
Output Return Loss vs Frequency



Gain compression at 10W out

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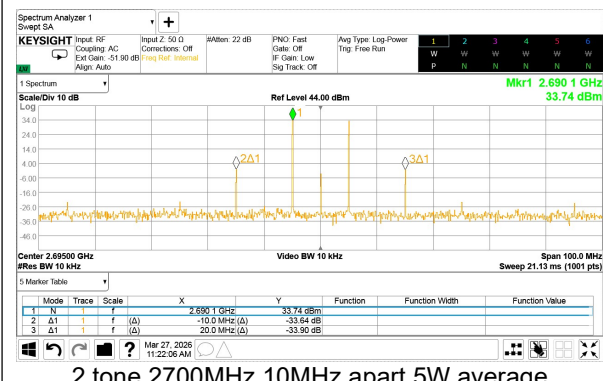
TYPICAL PERFORMANCE (continued)



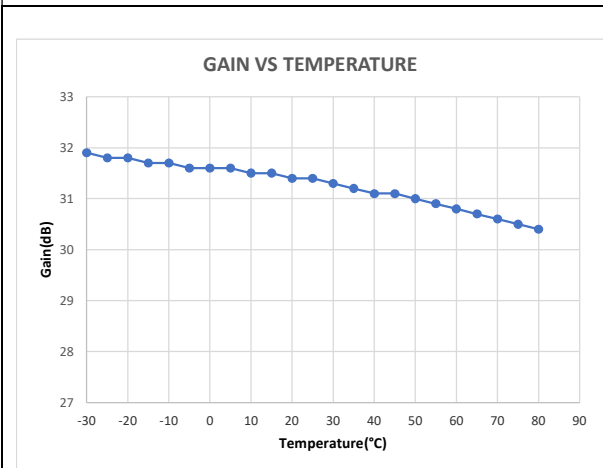
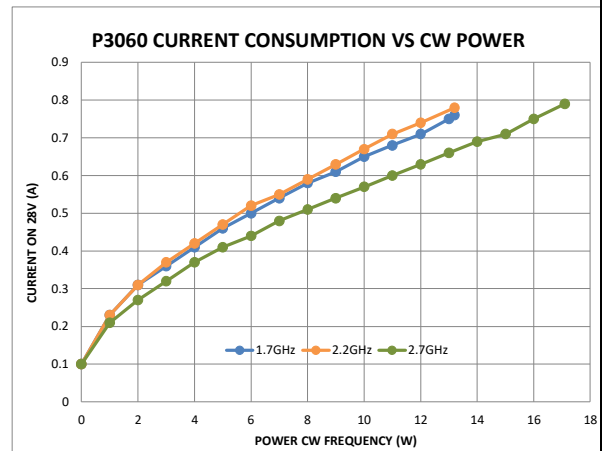
2 tone 1700MHz 10MHz apart 5W average



2 tone 2200MHz 10MHz apart 5W average



2 tone 2700MHz 10MHz apart 5W average



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