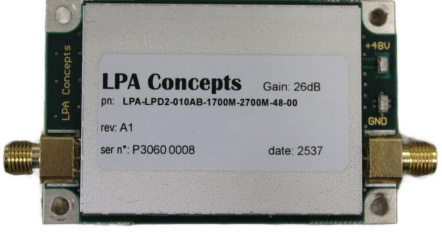
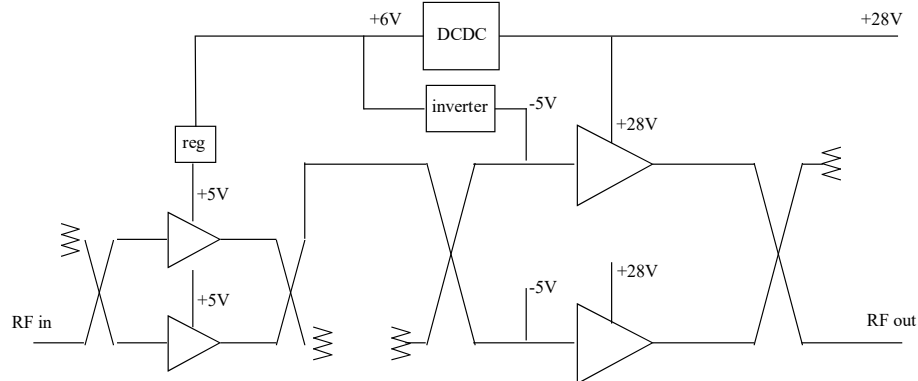


LPA Concepts

LINEAR POWER DRIVER AMPLIFIER	LPA-LPD2-003AA-3000M-4000M-28-00
P3140	
FEATURES <ul style="list-style-type: none"> ◆ 3000-4000MHz; class A ◆ Gain: 26 dB ◆ 50Ω input / output ◆ P_{pep} = 3W ; OIP3=+44dBm ◆ 28V / 0.5A ◆ 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

BLOCK DIAGRAM



LPA Concepts

Electrical characteristics: 50 ohms; +28V; -25°C to +80°C (1, 2)

Ref	Parameter	Conditions	Note	Min	Typ	Max	Units
1	Bandwidth			3000		4000	MHz
2	Gain small signal	3500 MHz; 50°C			26		dB
3	Gain variation vs frequency	3000 MHz - 4000 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 = -27dBc, f1=3495 MHz f2=3505MHz			3		W
8	Output 3 rd order Intercept point	f1=3495 MHz f2=3505MHz ; 2 x 20dBm			+45		dBm
9	Current consumption	Output < 1W ; 28V			0.5		A
10	Current consumption	Output=3W			0.45		A
11	Maximum current	Shut down current	3		0.7		A
12	Max temperature	Shut down temperature	4		80		°C

1. Unless otherwise specified
2. Housing temperature
3. On/Off to reset
4. 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		5, 6	20	28	30	V
3	Input average power		7			+10	dBm
4	Max load VSWR	At 3W out				10:1	

5. Shut down above 30V
6. No start if reverse voltage
7. Shut down if output power >7W

Power Supply DC Connection

Pin description			
Terminal 2 : Supply +28V		SMD LOOP TERMINAL	3.3mm x 1.85mm x 2.0mm
Terminal 1 : Gnd			

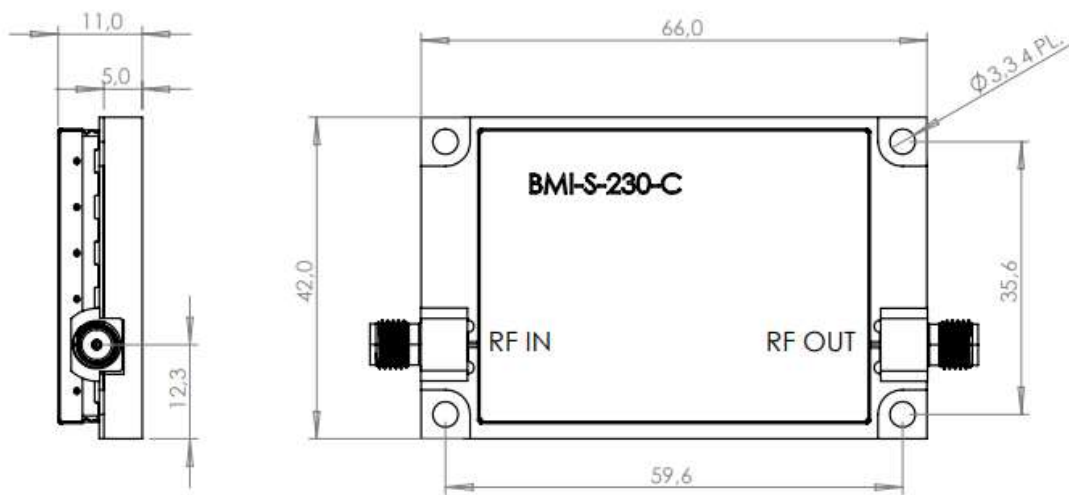
Specifications and information are subject to change without notice

LPA Concepts

Mechanical characteristics

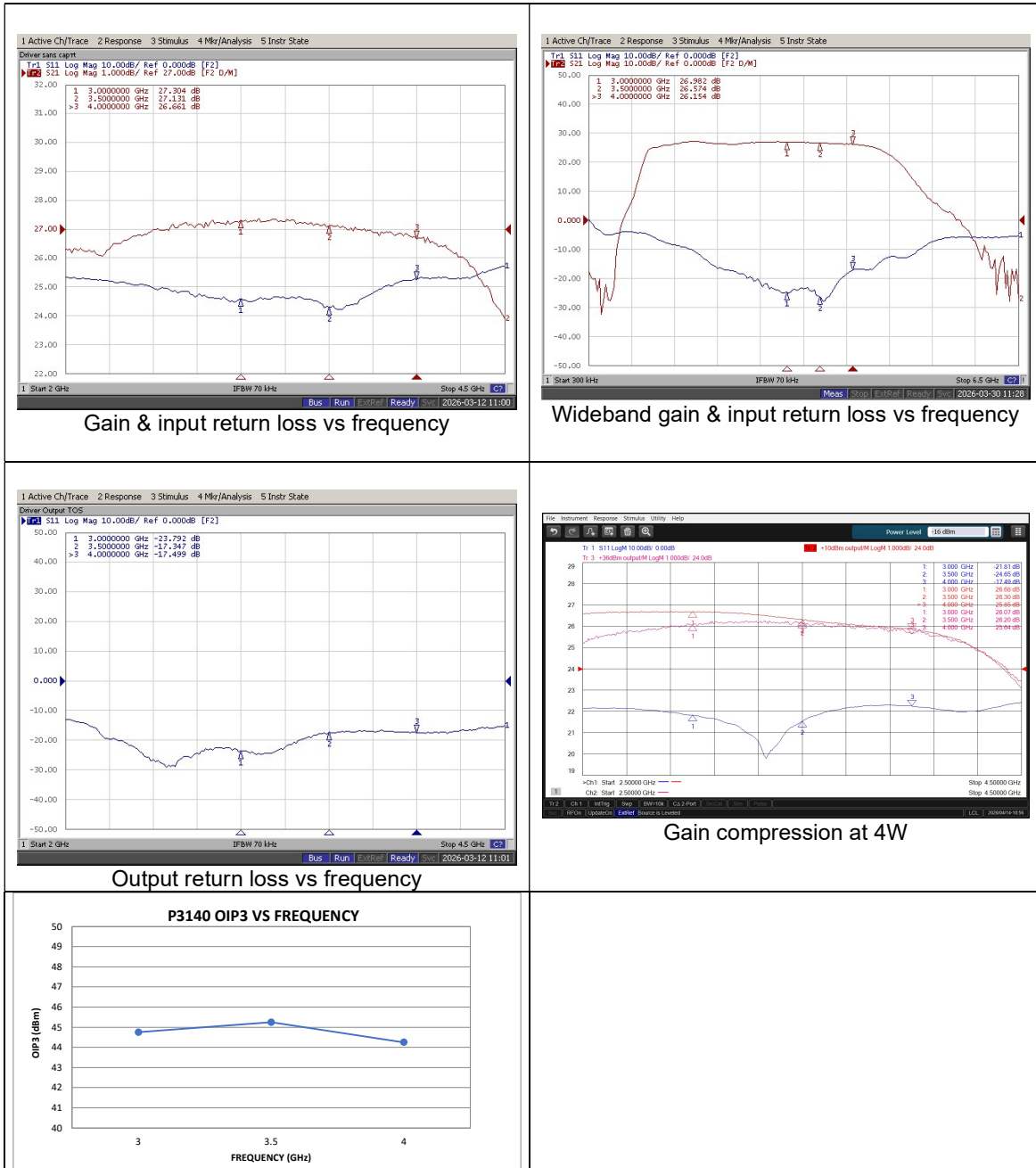
Ref	characteristic	description	remarks
1	Package dimensions	66mm x 42mm x 11mm	
2	Flange dimensions	66mm x 42mm x 5mm	4 M3 screws for heatsink attach
3	Input/output RF connectors	SMA	
4	DC supply connection	SMD Loop terminal	For hook clip (Minigrabber or Micrograbber)
5	Weight	60 grams	

Package outline:



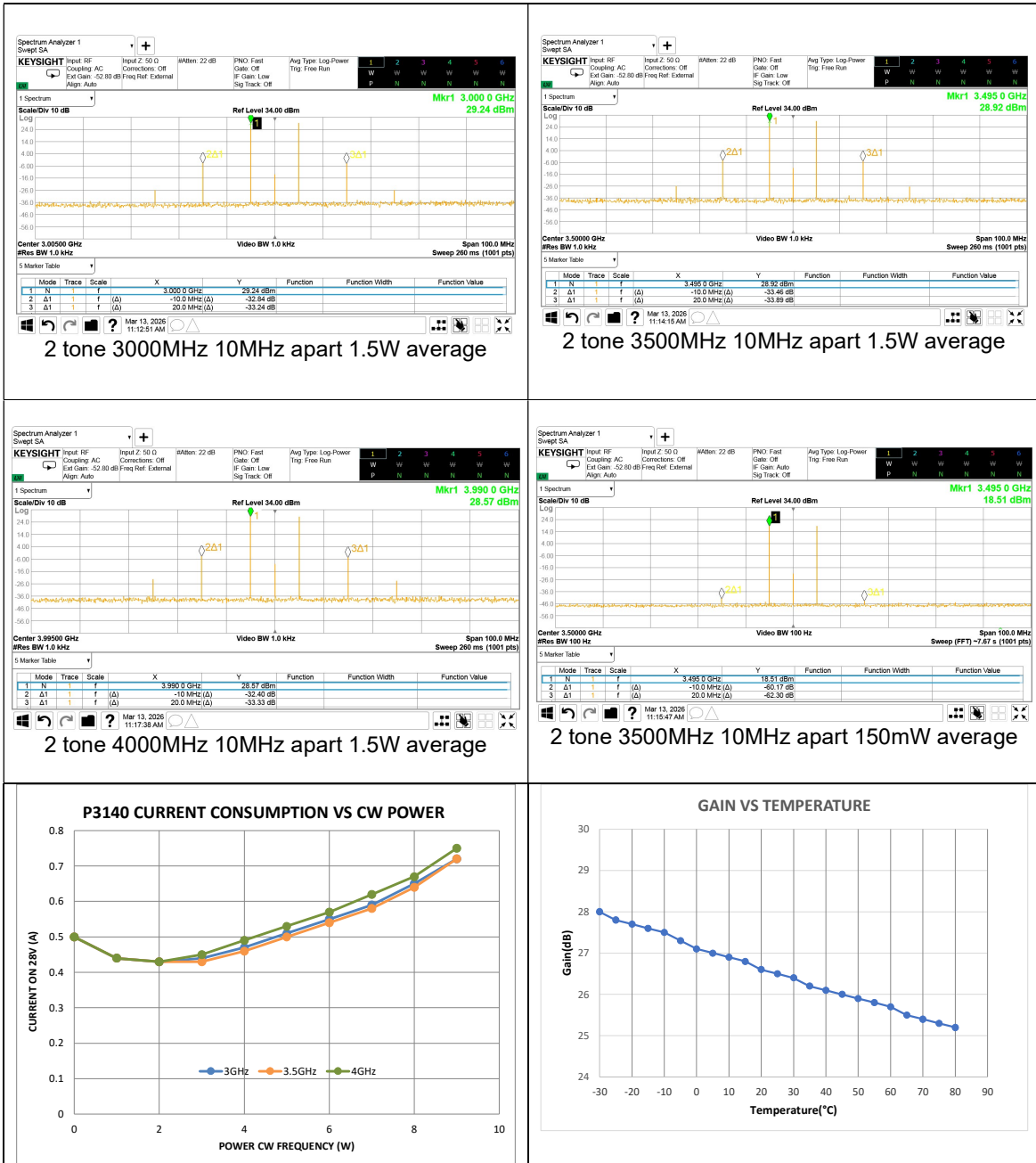
dimensions are in mm

TYPICAL PERFORMANCE



Specifications and information are subject to change without notice

TYPICAL PERFORMANCE (continued)



Specifications and information are subject to change without notice