



SARAS TECHNOLOGY LTD

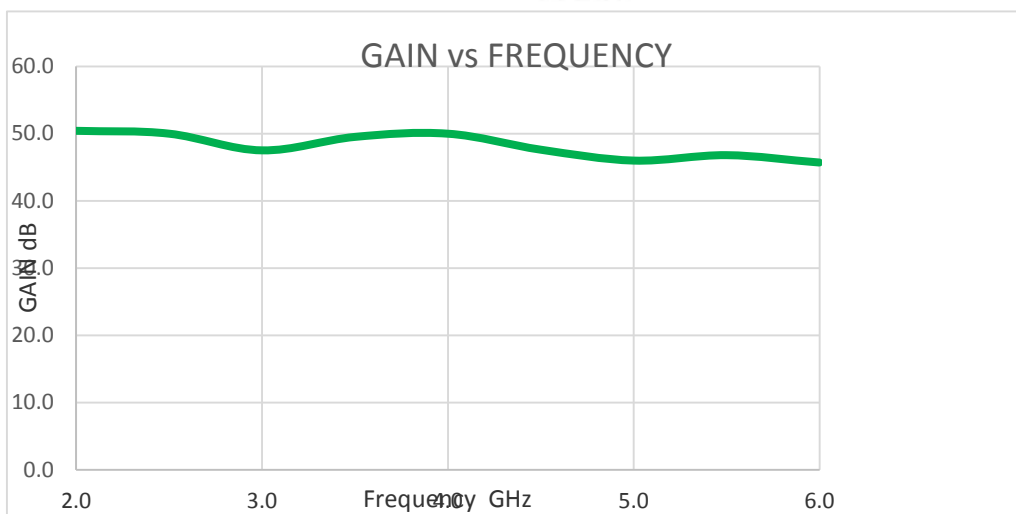
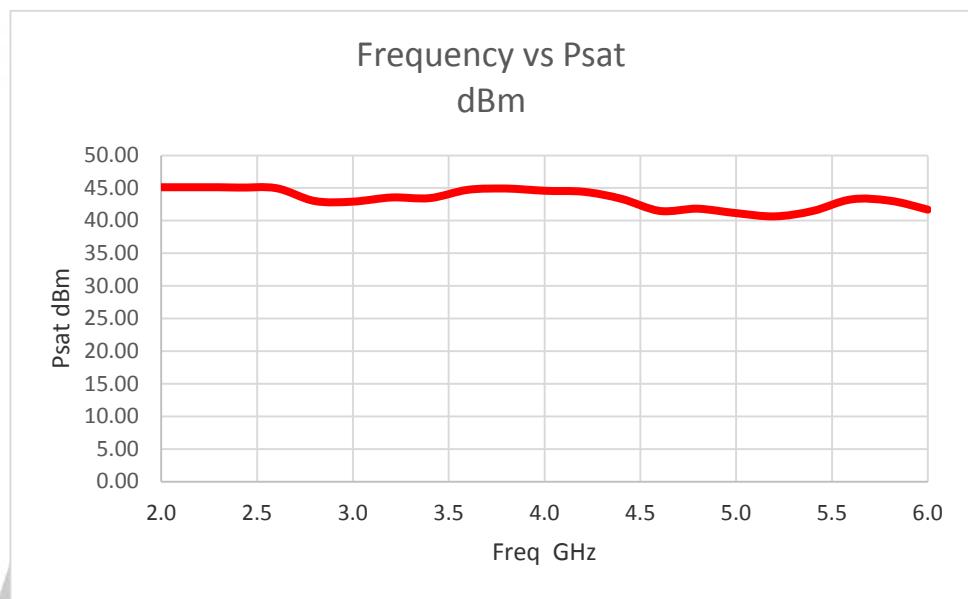
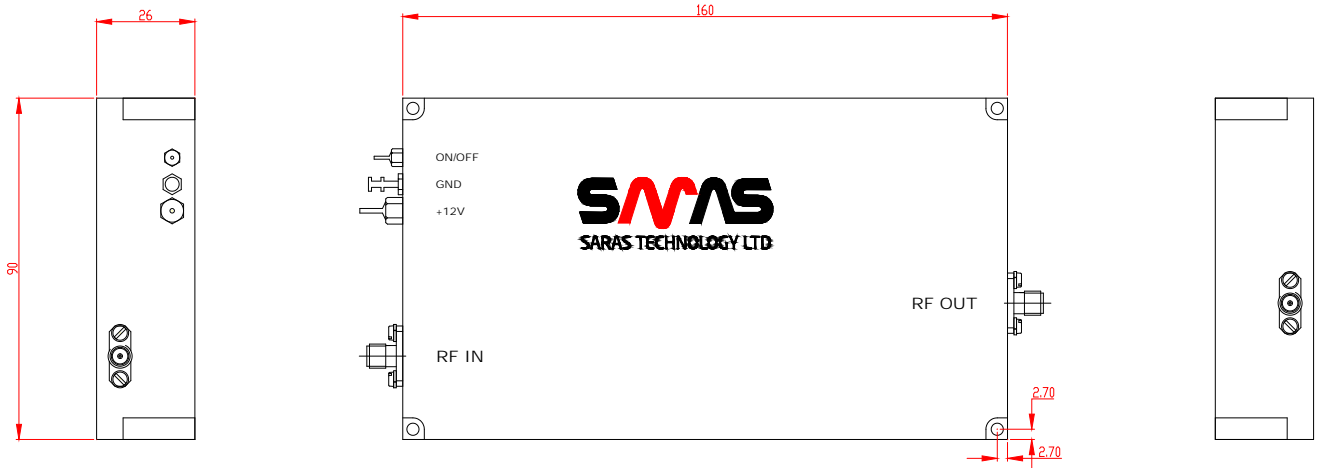
creating wireless solutions

<b>Product:</b>	<b>2-6 GHz 10W SSPA</b>
SARAS Type Code:	SPA080

Parameter	Value	Remark
<b>Electrical Specification</b>		
Operating Frequency	2 – 6 GHz	~1.5 GHz – 6.2GHz
Operating Bandwidth	4 GHz	
Output Power $P_{sat}$	10W typ	See Plot
Small Signal Gain	45dB min	See Plot
Gain Flatness	<+/- 2.5dB <+/- 5.0dB	Pin = 0dBm Pin = -20 dBm
Input Return Loss	-10dB	
Noise Figure	<3dB	
Harmonics @ $P_{out} = 46dBm$	15dB min	
Non-Harmonic Spurious Level	60dBc min	
Operating Voltage	28V typ	
Current Consumption at $P_{out}=100W$	<4A	
Quiescent Current	1.0A typ	
Operating Temperature	-40°C to +70°C	Base Plate Temperature
Storage Temperature	-30°C to +90°C	
<b>Interface</b>		
RF Input/Output Connector	SMA Female	
DC and Control	Large Filter Conn. = +28V  Earth Post = GND  Filter Conn. = Enable/Disable	Enable: TTL 'Low' Disable: TTL 'High' or Open
<b>Mechanical</b>		
Dimensions	160mm x 90mm x 26mm	
Weight	485g	
Interface Drawing	SPA080002	
Surface Finish	Iridite NCP	
<b>Limits</b>		
Input RF Drive Level without damage	+20dBm max	
Load VSWR @ $P_{out} = 10W$	3:1 @ all loads phase and amplitude continuous	
Thermal Degradation	+85°C	

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