



SARAS TECHNOLOGY LTD

creating wireless solutions

Product:	200W BROADBAND SSPA
SARAS Type Code:	SPA095

Parameter	Value	Remark
Electrical Specification		
Operating Frequency	700 - 2700MHz	
Operating Bandwidth	2000MHz	
Output Power P _{sat}	200W typ,	
Small Signal Gain	56dB min	
Gain Flatness	<2.0dB pk-pk any 200MHz	
Input Return Loss	-10dB	
Noise Figure	10dB	
Third Order Intercept Point 2-Tone @33dBm/Tone, 100kHz spacing	+50dBm min	
Harmonics @ P _{out} = 46dBm	15dB min	
Non-Harmonic Spurious Level	60dBc min	
Operating Voltage	35V typ	Range: 34V-36V
Current Consumption	16A	Typical at P _{sat}
Quiescent Current	3.5A typ	
Operating Temperature	-40°C to +70°C	Base Plate Temperature. (Requires adequate heatsinking)
Storage Temperature	-40°C to +75°C	
Interface		
RF Input/Output Connector	SMA Female	
DC and Control	D Sub Connector, DB-13W3, Plug, 13 Contacts Pin A1 = GND, Pin A2 = N/C, Pin A3 = +35V Pin 1 = RF Present, Pin 2 = Temperature Monitor Pin 3 = LED Drive (Optional), Pin 4 = Front Panel EN (Optional) Pin 5 = I2C SCK (Optional), Pin 6 = Unit ID (Optional) Pin 7 = +24V for Fan (optional), Pin 8 = Alarm Pin 9 = I2C SDA (Optional), Pin 10 = PA Enable	
Mechanical		
Dimensions	214mm x 160mm x 30mm	Excluding connectors
Weight	1600g	
Interface Drawing	SPA095001	
Surface Finish	Iridite NCP	
Limits		
Input RF Drive Level without damage	+15dBm max	
Load VSWR @ P _{out} = 100W	3:1 @ all loads phase and amplitude continuous	
Thermal Degradation	+85°C	

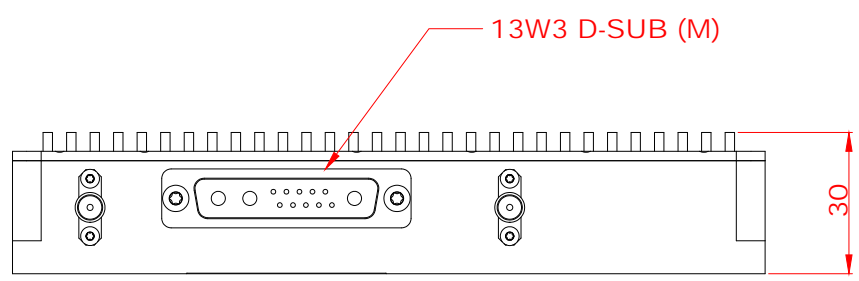
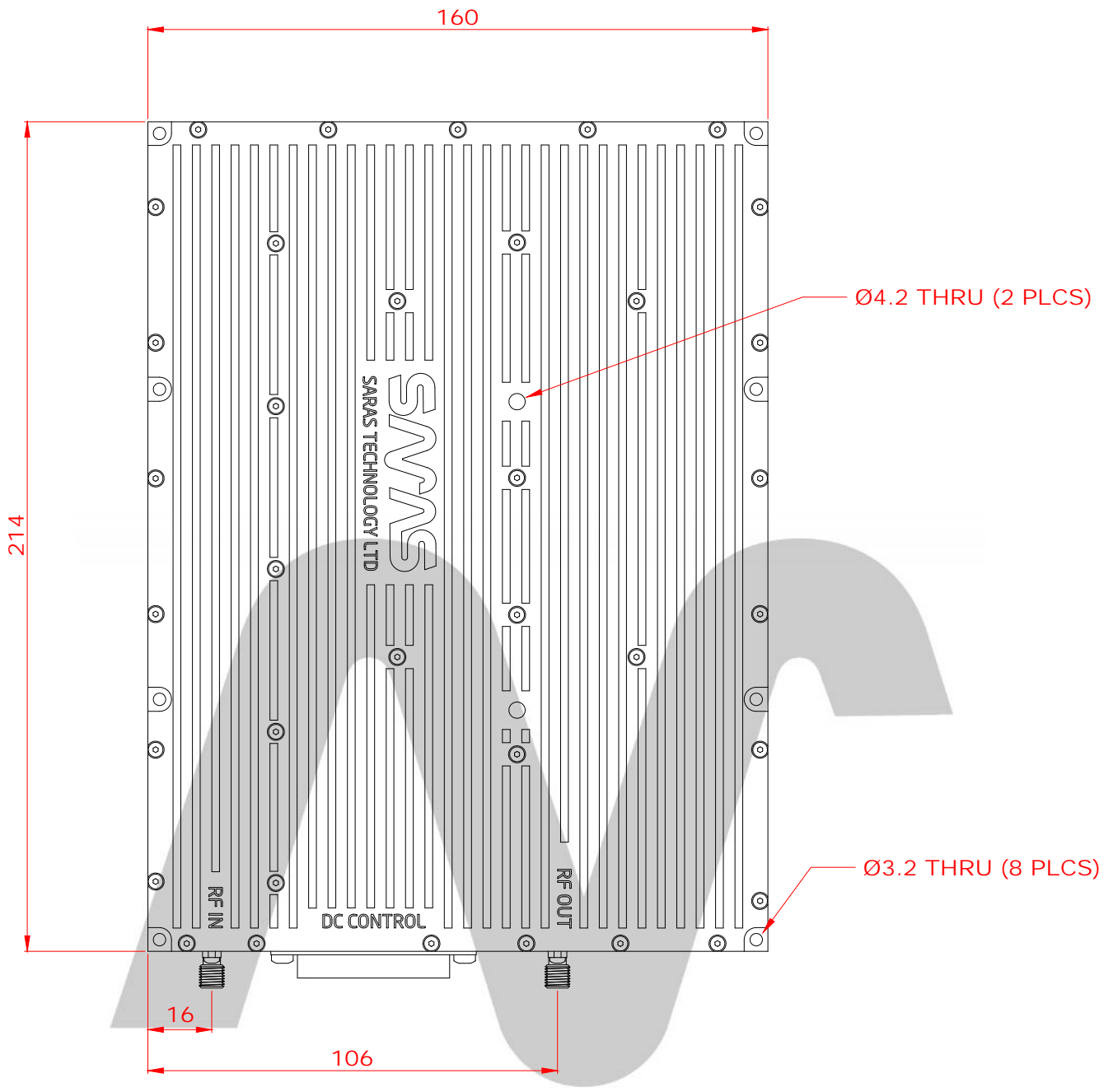
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