

ELECTRICAL SPECIFICATIONS**@ 50 Ω load, Tc = 35°C**

Parameter	Specification	Remark
Frequency Range	800-1000 MHz	
Saturated Output Power	200 W min.	
Small Signal Gain @ Centre Frequency	53 +/- 1.0 dB	Input = -15 dBm
Gain Flatness	Peak to Peak 4 dB	Input = -15 dBm
Maximum Input Power for no damage	5 dBm max.	
Input / Output VSWR	Less than 2:1	
RF Input Signal Format	CW	
Current Consumption	26 A max. , 22A typ.	@ 200W
DC Input Voltage	+27 +/- 1.0 VDC	

MECHANICAL SPECIFICATIONS

Parameter	Specification
Dimension	250 x 170 x 28 mm
RF Input Connector	SMA Female
RF Output Connector	N - Female
DC Power Connector	3W3P (A1: Vcc, A2: GND, A3: N.C)
Control Connector	D-SUB 9Pin Male
Cooling	Adequate Heat-sink required

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General Description

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Broadband High Power Amplifier
Frequency Range: 800 – 1000MHz
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Drawing Number:
ENG13-22

Rev:

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	11/03/14		NTS	
Rev.	Description	Date	Approval	

Interface Pin Description

Connector	Description	Specification
DC Connector (3W3P)	A1: Vcc	
	A2: GND	
	A3: Do not connect	
I/O Interface (D-Sub 9Pin Male)	1. Do not connect	
	2. Temperature Monitor	$VT = \{0.02(V/^{\circ}C) * T(^{\circ}C) + 1.0V\} +/- 0.1V$ T= Case Temperature +/- 5°C
	3. Enable (Active low)	pulled-up@5V with 20KΩ
	4. Do not connect	
	5. VSWR Fail Alarm	Alarm: High (5V)
	6. GND	
	7. Forward Power Monitor	4 +/- 0.3V @ CW 53dBm, Log slope: 0.1V/dB $V_{pin7} = 4 - (53 - P_{out}) \times 0.1 +/- 0.3V$
	8. Reflected Power Monitor	Vpin8 is Diode type Detector. Diode has non-linear log slope characteristic.
	9. Do not connect	

ENVIRONMENTAL SPECIFICATIONS

Parameter	Specification
Operating Case Temperature	-20 to 60°C
Storage Temperature	-40 to 85°C

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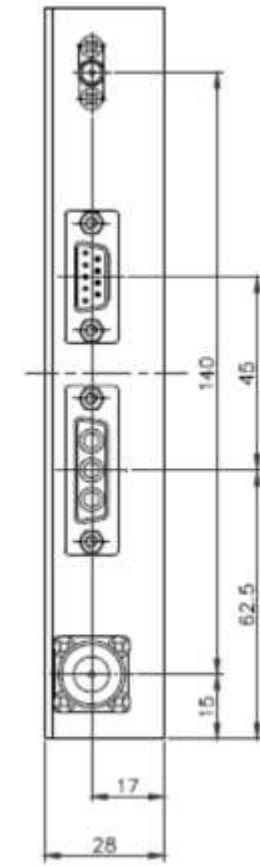
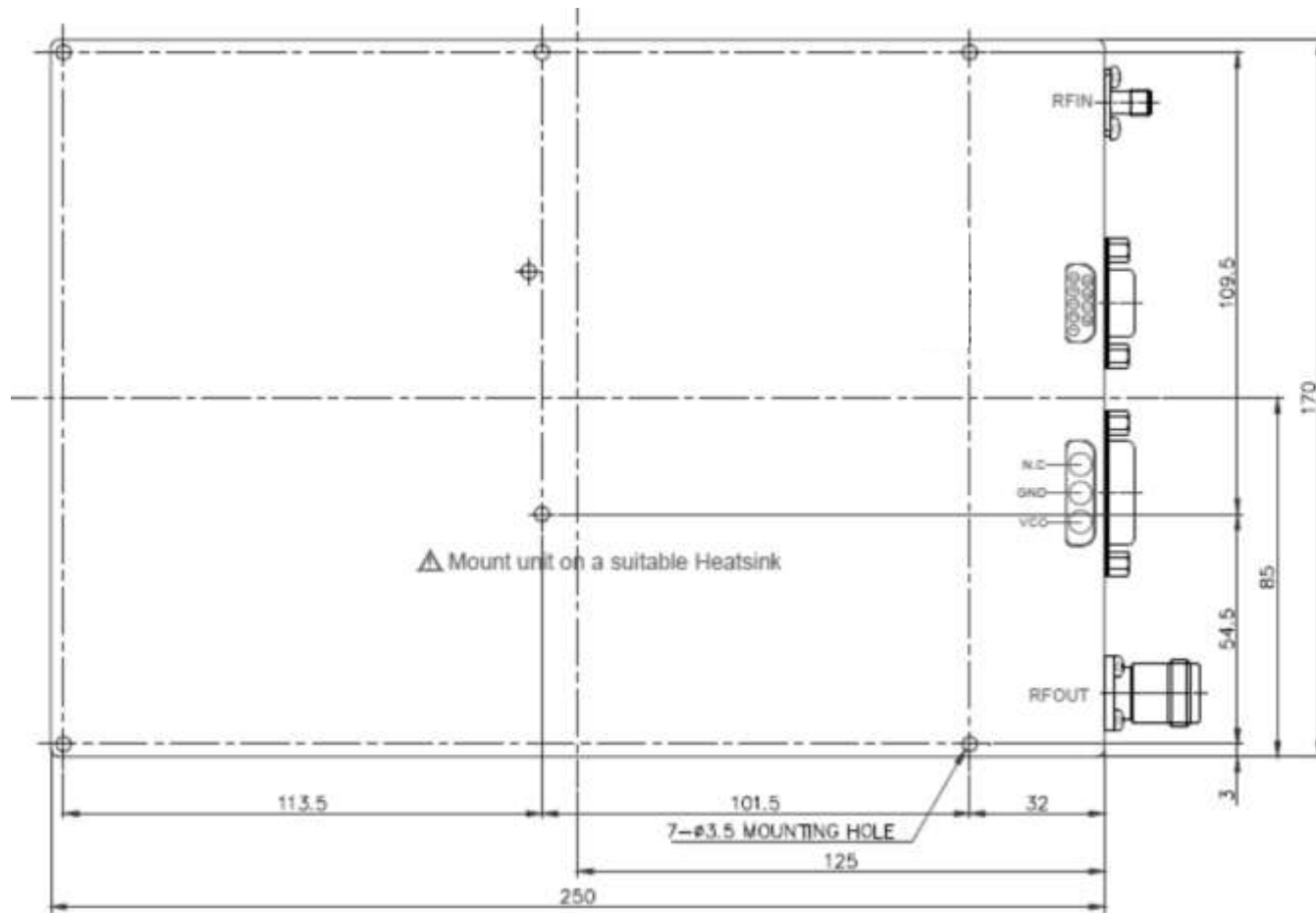
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Dimensions are in mm

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