



AMP3020 SOLID STATE HIGH POWER AMPLIFIER

PRELIMINARY

FEATURES

- Class AB linear LDMOS design
- Designed for X-Band High Power Pulse applications
- Built-in protection circuits
- High reliability and ruggedness

ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	950-1250MHz	
Peak Pulse Output Power	64 dBm Min	Pulse
Power Gain	64 dB Min	
Power Gain Flatness	2.0 dB p-p Max	
Input / Output Return Loss	15 dB / 10 dB Min	
Harmonics	>30 dBc	At rated Pout
Non Harmonics Spurious	>60 dBc	
Pulse Width	100 uS	
Pulse Duty Cycle	10 %	
Pulse Droop	1.0 dB	
Rise & Fall Time	75 nS	
Switching Delay	400 nS Typ	
Noise Figure	10 dB Max	
Operating Voltage	50 VDC Nom	
Quiescent Current	20 Amp Max	
Efficiency (PAE)	TBD	At rated Pout
Max Input Power	+8dBm Max	Without damage
Load VSWR Protection	∞ : 1	Output Isolator

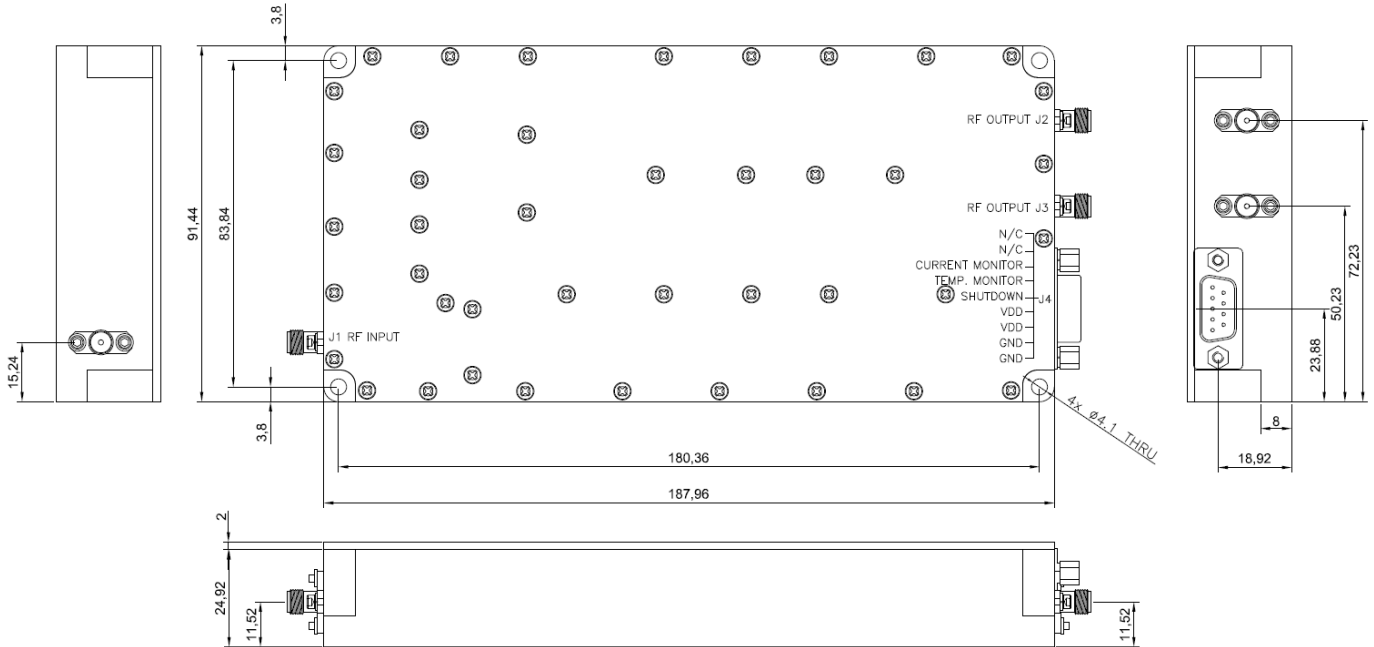
ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Case Temperature	-30 to +60°C	
Storage Temperature	-40 to +70°C	
Relative Humidity	5 to 95 %	Non Condensation

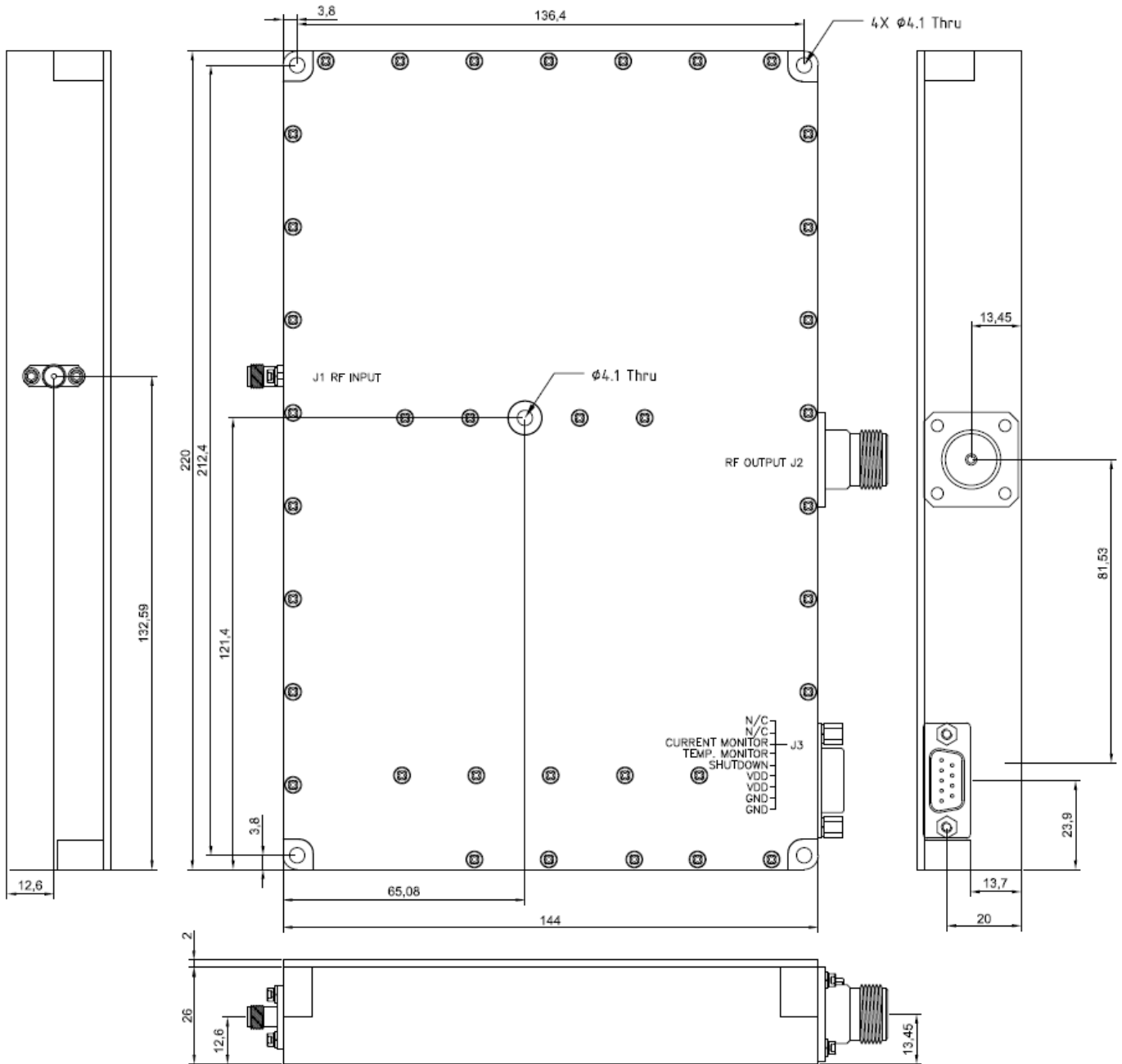
MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions	Heatsink Assembly	Including Connectors
Weight	TBD	
RF Connectors In/Out	TBD	
DC Power / Interface Connector	TBD	
Cooling	External Heatsink	Forced air required

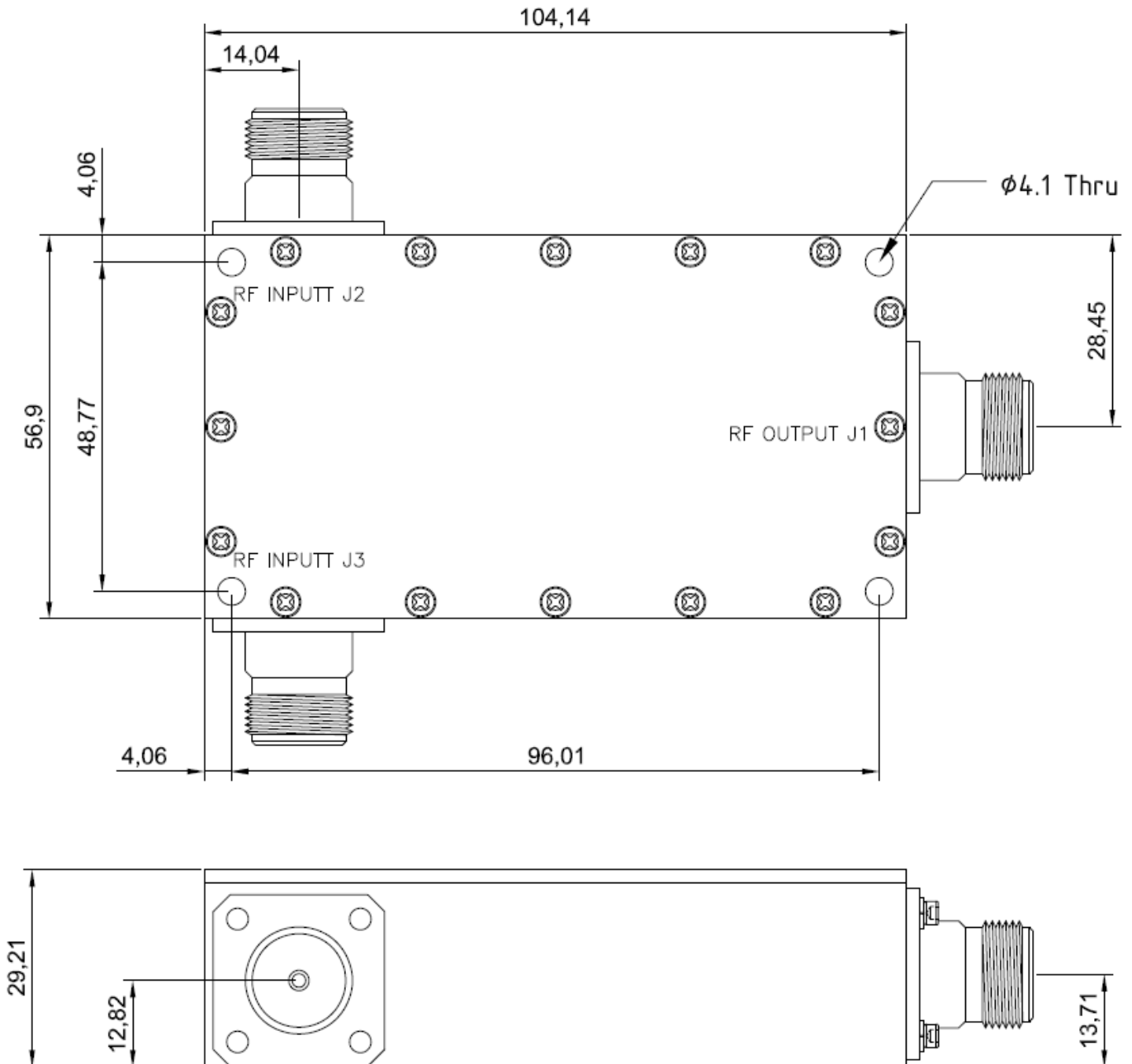
1. 950~1250MHz_2.5KW OUTLINE: DRIVE AMP



2. 950~1250MHz_2.5KW OUTLINE: MAIN AMP



3. 950~1250MHz_2.5KW OUTLINE: OUTPUT COMBINER



PRELIMINARY

4. 950~1250MHz_2.5KW OUTLINE: CONNECTION

