

DM34A**1GHz - 8GHz, 10W
WIDEBAND AMPLIFIER****ANTARES**
DEFENCE SYSTEMS

DM34A is a wideband, super-compact GaN Power Amplifier producing 10W from 1GHz to 8GHz. DM34A is ideal for light-weight applications.

**PRODUCT FEATURES**

- Broadband Frequency Range: 1GHz to 8GHz
- Psat Power: 10W
- Compact Footprint: 57.2mm x 38.1mm x 14.1mm
- Lightweight: <100g
- Robust: GaN Architecture

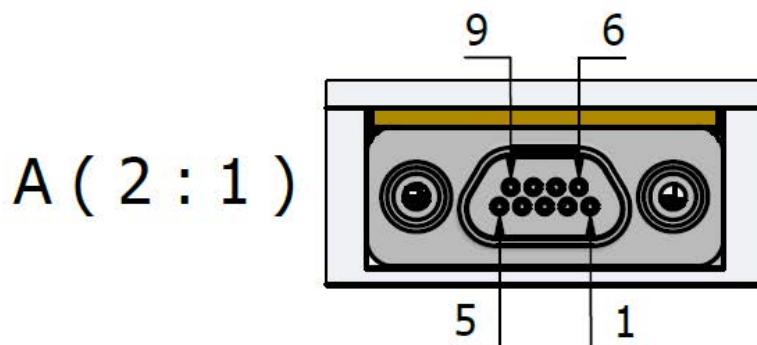
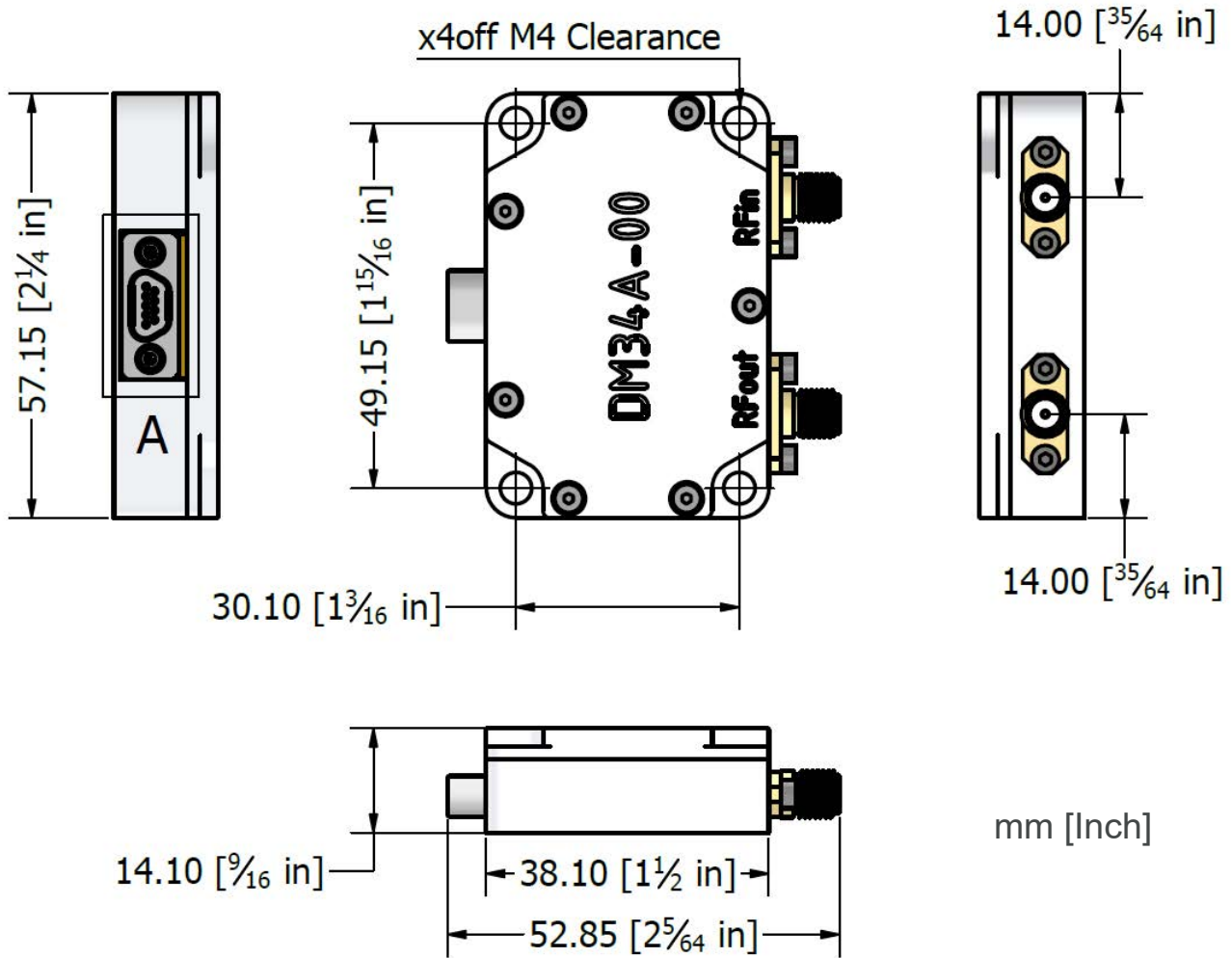
ELECTRICAL CHARACTERISTICS TC = +25 °C, 28 VDC, 50Ω System (unless otherwise noted)

PARAMETER	MINIMUM	MAXIMUM	TYPICAL	COMMENTS
Frequency	1 GHz	8 GHz		
Psat Power	7 W	10 W	9 W	
	38.5 dBm	40 dBm	39.5 dBm	
Large Signal Gain			40 dB	
Small Signal Gain			45 dB	
Input Drive	-6dBm	-3dBm	-5dBm	For Psat (Absolute Max +10dBm)
Input Return Loss			-10dB	
2nd Harmonics		-10dBc	-15dBc	
Current at Psat			1.5A	@ 28V
Efficiency at Psat			35 %	@ 28V
Noise Figure		10dB		
Input Voltage	22V	30V	28V	Predictable power variation with voltage
Intermodulation			-20 dBc	Two 1W tones, 1MHz Spacing
Shutdown Fall Time			500 us	Pin 4 (Shutdown current 50mA)
Footprint Dimensions WxLxH	57.2 mm x 38.1 mm x 14.1 mm	[2.25"x1.5"x0.55"]		Excluding Connectors
Weight			80 g	
Connectors		Straight SMA & 9 Pin D-Sub Micro-D		
Operating Temperature	-20°C	+80°C		Cold Start -40°C
Storage Temperature	-40°C	+85°C		
Thermal Protection		Cut-out operates at 85°C ±5°C		
Thermometer Output		8mV/°C, 1365mV = 25°C		
Open/short Survivability	10:1 VSWR at all phase angles (for 1 minute)			

DM34A

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BROADBAND PA

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D-Sub Pinout:

- 1: N/C
- 2: Thermometer
- 3: N/C
- 4: Mute/Enable
- 5: N/C
- 6: +28V In
- 7: +28V In
- 8: GND
- 9: GND