

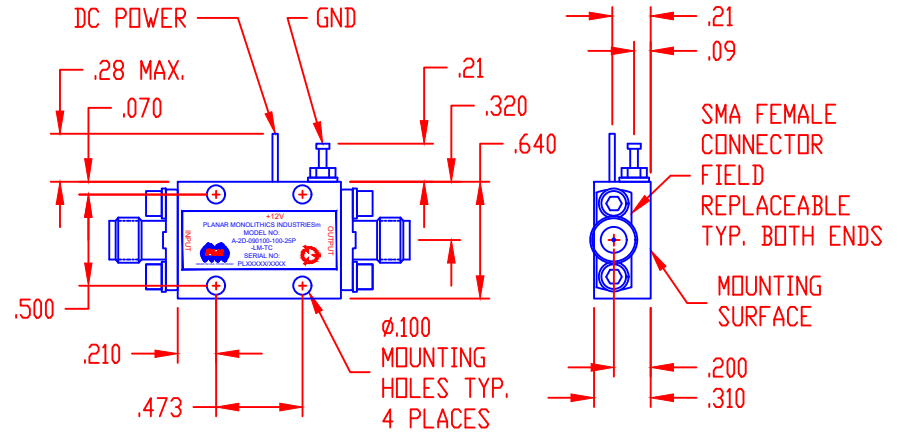
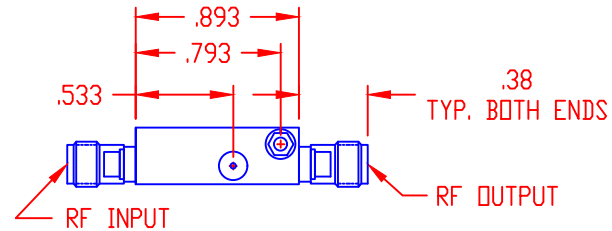
REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	05/18/16	<i>[Signature]</i>

**DESCRIPTION:**

PMI Model A-2D-090100-100-25P-LM-TC is a narrowband medium power amplifier. It is unconditionally stable over operating temperature. The input has a limiter and the maximum safe input power is 30 dBm. The gain is temperature compensated. The amplifier is DC voltage regulated and reverse voltage polarity protected internally.

**SPECIFICATIONS AT +25 °C UNLESS OTHERWISE INDICATED:**

- Frequency Range: 9.0 to 10.0
- Gain: 19.0 – 22.0 dB
- Gain at -40 °C: 16.0 – 19.0 dB
- Gain at +95 °C: 22.0 – 25.0 dB
- Pass Band Flatness: ±0.5 dB max. peak to peak
- Noise Figure: 10.0 dB max. at +25 °C  
12 dB nom. from -40 to +95 °C
- P1dB Out: +25.0 dBm min.
- VSWR In: 2.0 : 1 max. 1.5 : 1 goal
- VSWR Out: 2.0 : 1 max.
- Input Power Handling: +30 dBm max.
- Operating Temperature: -40 to +85 °C
- DC Power Supply: +12 VDC @ 150 mA nominal
- Connectors (In/Out): SMA female, field replaceable
- Finish: Gold plated
- Heatsink required for operation



**ENVIRONMENTAL RATINGS**

- **TEMPERATURE:** -55°C TO + 85°C (OPERATING)  
-65°C TO +125°C (STORAGE)
- **HUMIDITY:** MIL-STD-202F, METHOD 103B COND. B
- **SHOCK:** MIL-STD-202F, METHOD 213B COND. B
- **VIBRATION:** MIL-STD-202F, METHOD 204D COND. B
- **ALTITUDE:** MIL-STD-202F, METHOD 105C COND. B
- **TEMPERATURE CYCLE:** MIL-STD-202F, METHOD 107D COND. A

NOTES: 1: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE  
2: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

UNLESS OTHERWISE SPECIFIED  
ALL DIMENSIONS ARE IN INCHES  
TOLERANCES:

X.XX ±0.01  
X.XXX ±0.005

**PMI CONFIDENTIAL AND PROPRIETARY**

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ISO 9001:2008 CERTIFIED



APPROVALS		DATE	TITLE		
<i>[Signature]</i>		05.18.16	PRODUCT FEATURE		
DRAWN			A-2D-090100-100-25P-LM-TC		
CHECKED			SIZE	FSCM NO.	DWG NO.
			A	05XQ0	D3-3A
ISSUED			SCALE	N:S	SHEET 1 OF 1
					REV. A1