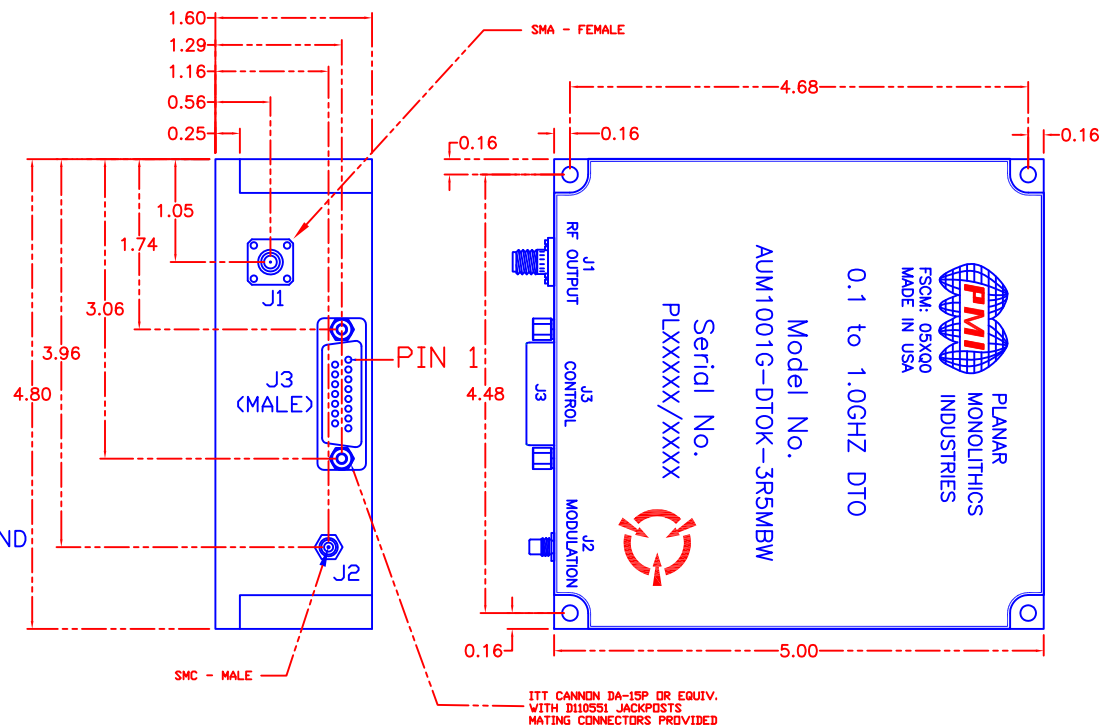


DESCRIPTION:

PLANAR MONOLITHICS INDUSTRIES MODEL NUMBER:
AUM1001G-DTOK-3R5MBW IS A DIGITALLY CONTROLLED
OSCILLATOR THAT OPERATES OVER THE 100MHz TO 1.0GHz
FREQUENCY RANGE. THIS UNIT FEATURES HIGH SPEED, HIGH
ACCURACY AND LOW PHASE NOISE

SPECIFICATIONS:

- FREQUENCY: 0.1 TO 1.0 GHz
- FREQUENCY ACCURACY: $\pm 2.0\text{MHz}$ MAX @ $+25^\circ\text{C}$
- MODULATION:
 - BANDWIDTH (3dB): 5MHz TYP, 3.5MHz MIN
 - SENSITIVITY VARIATION: 3.0:1 TYP, 4.0:1 MAX
 - FREQUENCY DEVIATION BW: 40 TO 100MHz TYP @ 2V P-P
- RF POWER:
 - OUTPUT: +10dBm MIN
- PHASE NOISE: -60dBc/Hz TYP @ 100kHz OFFSET
- HARMONICS: -20dBc TYP, -15 dBc MIN
- SPURIOUS: -55dBc MAX
- LINEARIZED FREQUENCY TUNING
 - STEP SIZE: LSB 2.0MHz NOMINAL FOR FULL-BAND
- DC POWER:
 - +15V $\pm 0.5\text{V}$
 - 15V $\pm 0.5\text{V}$
 - + 5V $\pm 0.5\text{V}$
 - +28V $\pm 2.0\text{V}$



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ENVIRONMENTAL RATINGS

- TEMPERATURE: -40°C TO +70°C (OPERATING)
-40°C TO +100°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 CYCLING MIL-STD-202G, METHOD 107G COND. A

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

ALL DIMENSIONS ARE IN INCHES
TOLERANCES:
X.XX ± 0.020
X.XXX ± 0.010

PLANAR MONOLITHICS INDUSTRIES, INC.

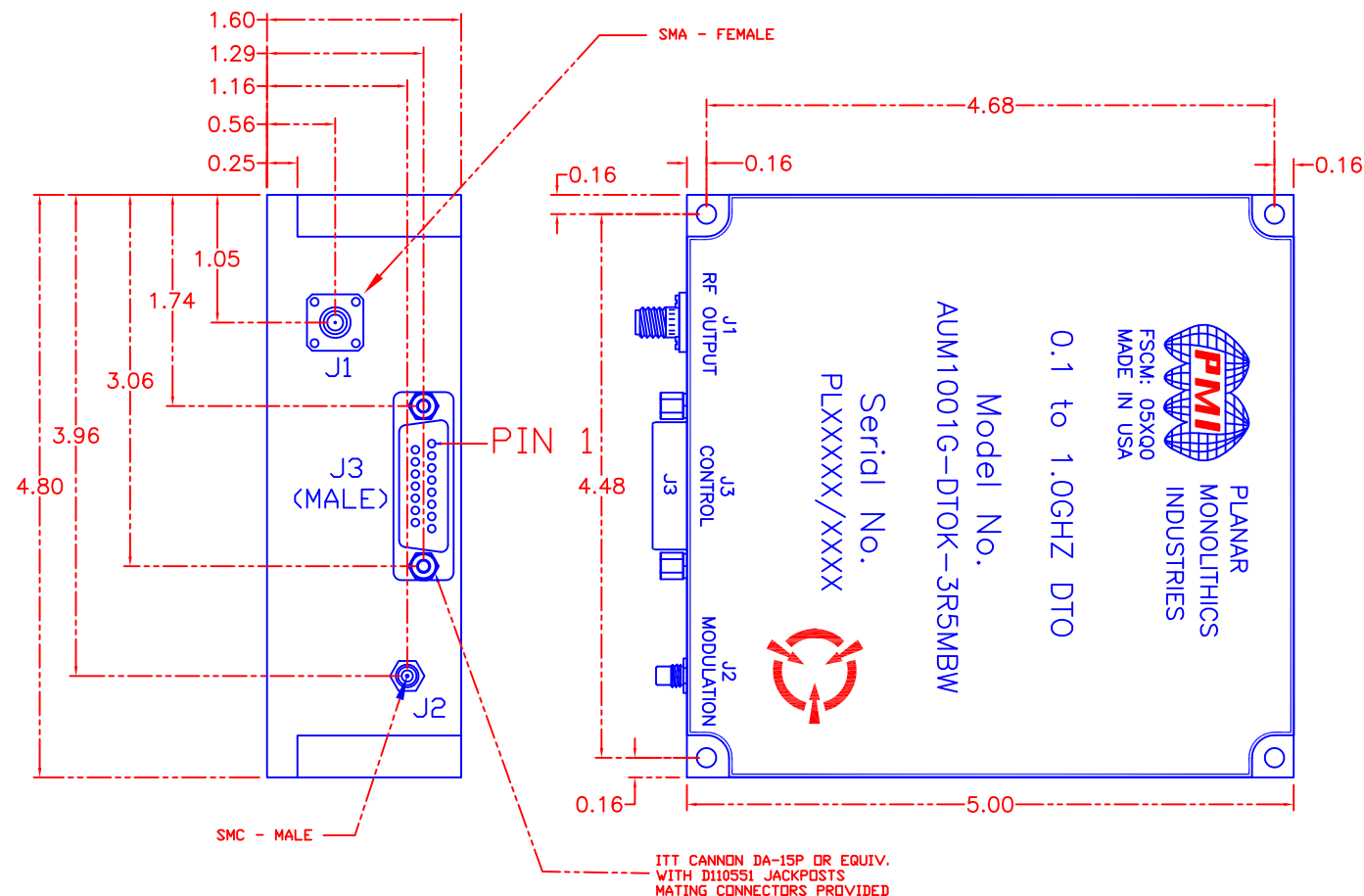
FREDERICK, MARYLAND 21704 USA
TEL: 301-662-5019
FAX: 301-662-1731
WEBSITE: www.pmi-rf.com
E-MAIL: sales@pmi-rf.com
ISO 9001:2008 CERTIFIED



APPROVALS		DATE	TITLE			
DRAWN <i>afk</i>		09/02/11	PRODUCT FEATURE			
CHECKED			AUM1001G-DTOK-3R5MBW			
ISSUED			0.1 to 1.0GHz High Performance DTO			
SIZE	FSCM NO.	DWG NO.	REV.			
A	05XQO	27013981	A2			
SCALE N:S		SHEET		1 OF 2		

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	09/02/11	
	A2	ECN # 13-0107	08/06/19	

J3 CONNECTIONS TABLE	
PIN NO	FUNCTION
1	A8 TUNING WORD (MSB)
2	A7 TUNING WORD
3	A6 TUNING WORD
4	A5 TUNING WORD
5	A4 TUNING WORD
6	A3 TUNING WORD
7	A2 TUNING WORD
8	A1 TUNING WORD
9	A0 TUNING WORD
10	LATCH
11	+15V
12	-15V
13	+5V
14	+28V
15	GROUND



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APPROVALS		DATE		TITLE	
DRAWN <i>afk</i>		09/02/11		PRODUCT FEATURE	
CHECKED				AUM1001G-DTOK-3R5MBW	
ISSUED				0.1 to 1.0GHz High Performance DTO	
SIZE	FSCM NO.	DWG NO.	REV.		
A	05XQ0	27013981	A2		
SCALE N:S		SHEET		2 OF 2	

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

ALL DIMENSIONS ARE IN INCHES
 TOLERANCES:
 X.XX ±0.020
 X.XXX ±0.010