

DESCRIPTION:

PLANAR MONOLITHICS INDUSTRIES MODEL NUMBER PDC-200M18G-140M-CD-1 IS A DOWN CONVERTER MODULE. THIS UNIT DOWN CONVERTS A 200 MHz TO 18 GHz SIGNAL TO 140 MHz THROUGH THE USE OF AN EXTERNAL LO SIGNAL. THE MODULE INCLUDES AN LO AMPLIFIER AND AN IF OUTPUT FILTER.

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	PRELIMINARY	6/8/2018	

SPECIFICATIONS:

- RF FREQUENCY:..... 0.2 TO 18 GHz
- RF INPUT POWER LEVEL:..... -70 TO +10 dBm
- RF SURVIVAL INPUT POWER LEVEL:..... +23 dBm MAXIMUM
- RF VSWR:..... 2 : 1 MAXIMUM

- LO FREQUENCY:..... 0.34 TO 18.14 GHz
- LO INPUT POWER LEVEL:..... +10 dBm ± 2 dB
- LO SURVIVAL INPUT POWER LEVEL:..... +23 dBm MAXIMUM

- IF OUTPUT FREQUENCY:..... 140 MHz
- CONVERSION LOSS:..... 7 dB MAXIMUM

- LO TO RF ISOLATION:..... 15 dB MINIMUM
- LO TO IF ISOLATION:..... 25 dB MINIMUM

- 1 dB COMPRESSION POINT:..... +10 dBm MINIMUM
- INPUT TOI POINT:..... +13 dBm MINIMUM

- SPURIOUS RESPONSE:..... -45 dBc MAXIMUM

- CONNECTORS:..... SMA (F)

- POWER SUPPLY:..... +12VDC @ 300 mA MAXIMUM

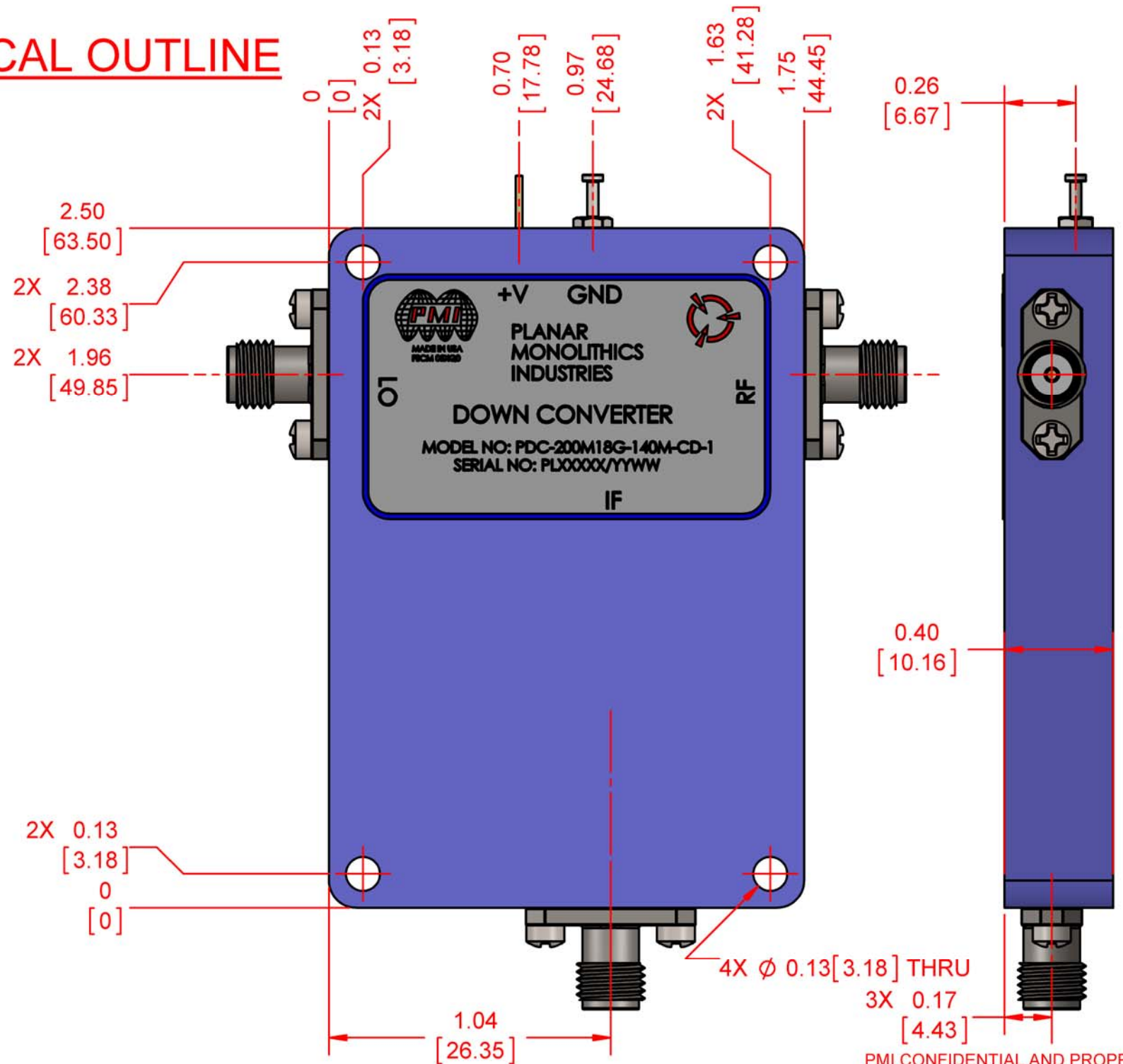
- SIZE:..... 1.75" X 2.5" X 0.40" GOAL

- FINISH:..... PAINTED BLUE

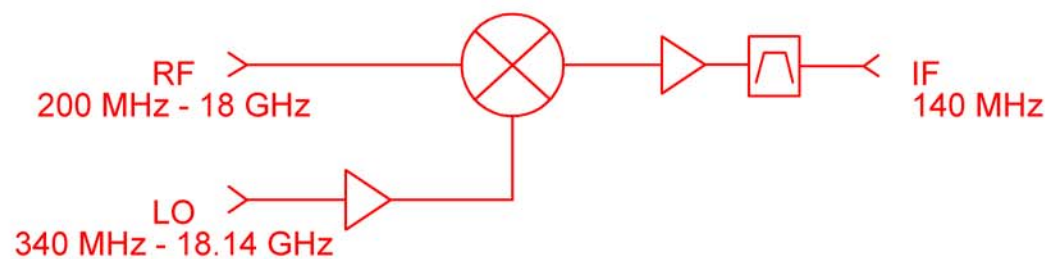
ENVIRONMENTAL RATINGS:

- TEMPERATURE:..... 0°C TO +50°C (OPERATING)

MECHANICAL OUTLINE



BLOCK DIAGRAM



PMI CONFIDENTIAL AND PROPRIETARY

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± .XX ± 0.02 ± .XXX ± 0.01		<table border="1"> <tr> <th>APPROVALS</th> <th>DATE</th> </tr> <tr> <td>DRAWN M. HANKEN</td> <td>6/8/2018</td> </tr> <tr> <td>REDRAWN</td> <td></td> </tr> <tr> <td>ISSUED</td> <td></td> </tr> </table>		APPROVALS	DATE	DRAWN M. HANKEN	6/8/2018	REDRAWN		ISSUED		<table border="1"> <tr> <td colspan="2"> PLANAR MONOLITHICS INDUSTRIES, INC. </td> </tr> <tr> <td colspan="2"> 7311-F GROVE ROAD FREDERICK, MARYLAND 21704 USA TEL: (301)-862-5019 FAX: (301)-862-1731 WEB: www.pmi-rf.com EMAIL: sales@pmi-rf.com ISO 9001 CERTIFIED </td> </tr> <tr> <td colspan="2">TITLE PRODUCT FEATURE PDC-200M18G-140M-CD-1</td> </tr> <tr> <td>SIZE B</td> <td>FSCM NO. 05XQ0</td> </tr> <tr> <td>DWG NO. PRELIMINARY</td> <td>REV. 1</td> </tr> <tr> <td>SCALE 2:1</td> <td>SHEET 1 OF 1</td> </tr> </table>		PLANAR MONOLITHICS INDUSTRIES, INC. 		7311-F GROVE ROAD FREDERICK, MARYLAND 21704 USA TEL: (301)-862-5019 FAX: (301)-862-1731 WEB: www.pmi-rf.com EMAIL: sales@pmi-rf.com ISO 9001 CERTIFIED		TITLE PRODUCT FEATURE PDC-200M18G-140M-CD-1		SIZE B	FSCM NO. 05XQ0	DWG NO. PRELIMINARY	REV. 1	SCALE 2:1	SHEET 1 OF 1
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