

DESCRIPTION

PMI MODEL PLM-8G12G-STE-MCCP-PXI IS A PXI RF INTEGRATED LINK MODULE FOR SPECIAL TEST EQUIPMENT. IT IS DESIGNED TO OPERATE OVER THE 8.0 TO 12.0 GHz FREQUENCY RANGE. IT EMPLOYS DIRECTIONAL COUPLERS, POWER DIVIDER/COMBINERS, A CIRCULATOR, AN EXTENDED RANGE DLVA, A THRESHOLD DETECTOR, AND A DOWN LINK BLANKING SWITCH. THE THRESHOLD DETECTOR OPENS THE BLANKING SWITCH WHENEVER AN UPLINK SIGNAL IS DETECTED, PREVENTING REFLECTED SIGNALS AT J3 FROM CHANGING THE LEVEL AT THE ERDLVA INPUT.

REVISIONS					
ZONE	REV.	DESCRIPTION	DATE	APPROVED	
	1	PRELIMINARY	11-15-17		
	2	UPDATES	11-30-17		
	3	PCB CONNECTOR UPDATES	12-08-17		

TABLE 1 FUNCTION

J1	UP LINK
J2	ERDLVA OUTPUT 75Ω
J3	UP/DOWN LINK
J4	DOWN LINK MSG
J5	UPLINK MSG
J6	UL/DL MONITOR

TABLE 2 LOSSES

LOSSES	NOM	MIN	MAX	±TOL	UNITS
J3-ERDLVA	-20.40	-17.85	-22.95	2.55	dB
J1-ERDLVA	-37.75	-34.90	-40.60	2.85	dB
J1-J5 UP LNK MON	-21.75	-20.25	-23.25	1.5	dB
J3-J4 DN LNK MON	-21.80	-20.25	-23.35	1.55	dB
J1-J6 UL/DL MON	-43.60	-39.75	-47.45	3.85	dB
J3-J6 UL/DL MON	-26.25	-22.70	-29.80	3.55	dB
J1-J3 UP LINK	-2.30	-1.65	-2.95	0.65	dB

PMI CONFIDENTIAL AND PROPRIETARY

PLANAR MONOLITHICS INDUSTRIES, INC.

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ISO 9001 CERTIFIED

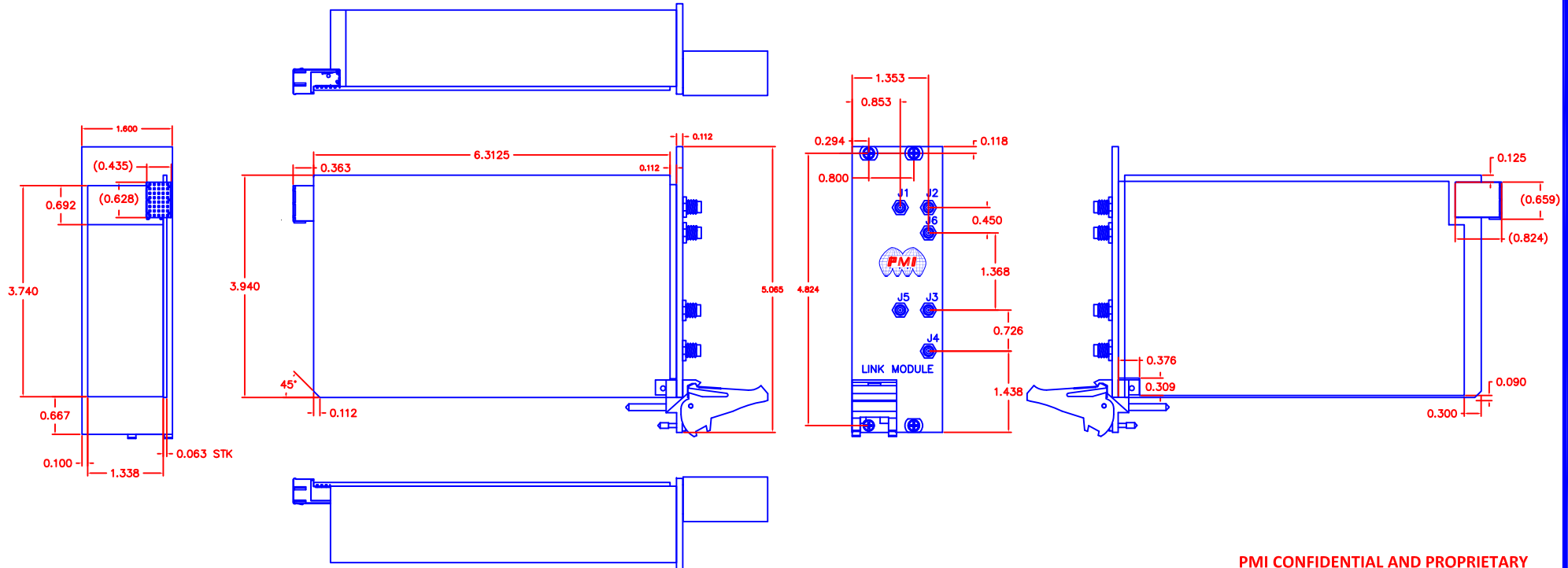
APPROVALS		DATE	TITLE			
DRAWN JM		11-15-17	PRODUCT FEATURE PLM-8G12G-STE-MCCP-PXI			
CHECKED			SIZE	FSCM NO.	DWG NO.	REV.
ISSUED			A	71A34	PRELIMINARY	3
			SCALE	N:S		SHEET 1 OF 2

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MECHANICAL OUTLINE



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MARKING: APPROX AS SHOWN PER MIL-STD-130.

ALL DIMENSIONS ARE IN INCHES
 TOLERANCES:
 X.XX ±0.010
 X.XXX ±0.005

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ISSUED			A	71A34	PRELIMINARY
			SCALE	N:S	SHEET 2 OF 2
					REV. 3