

DESCRIPTION

PMI MODEL PLM-8G12G-STE-MCCP-PR IS A PROTOTYPE "PROOF OF CONCEPT" 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	11-7-17	

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.

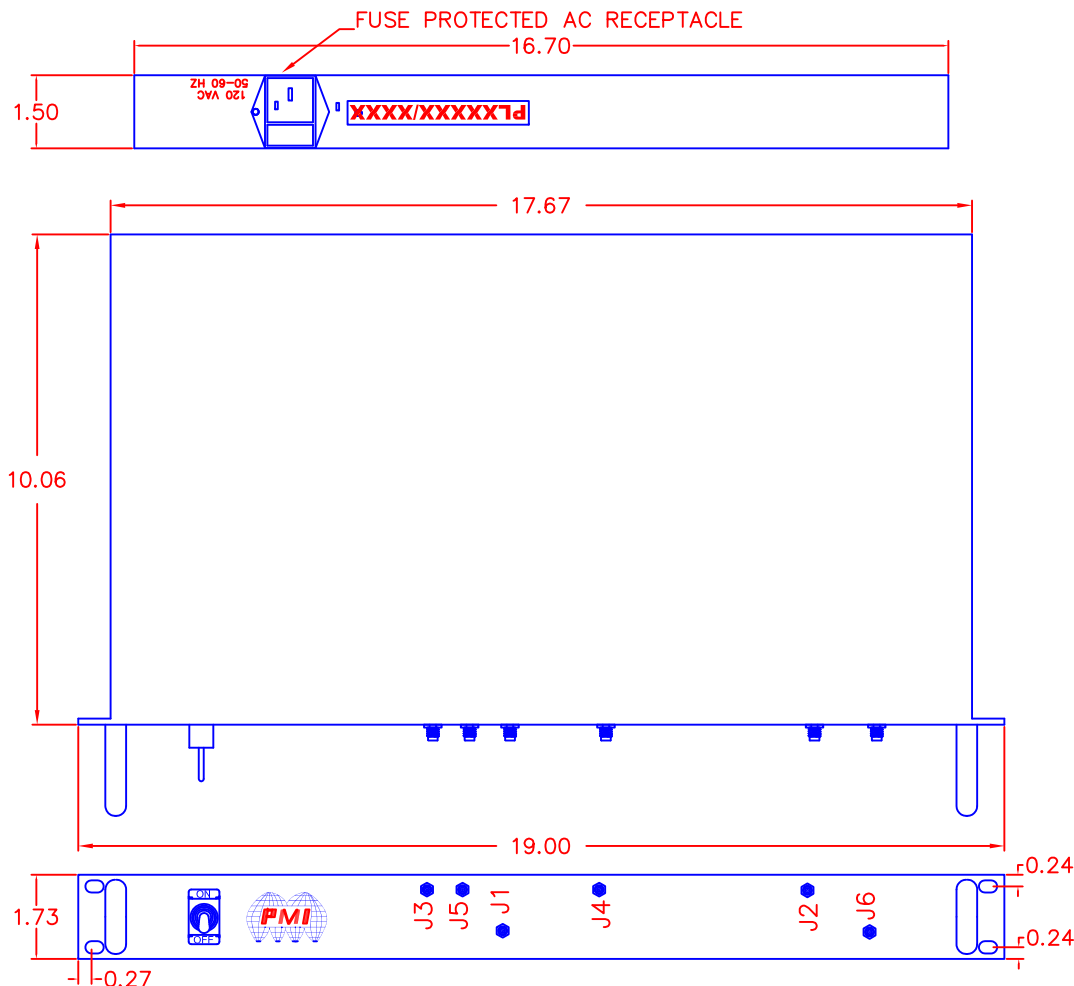
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ISO 9001 CERTIFIED

APPROVALS		DATE	TITLE PRODUCT FEATURE PLM-8G12G-STE-MCCP-PR		
DRAWN	JM	11-7-17	SIZE	FSCM NO.	DWG NO.
CHECKED			A	71A34	PRELIMINARY
ISSUED			SCALE	N:S	SHEET 1 OF 2

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

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NOTES: (UNLESS OTHERWISE SPECIFIED)
1. FINISH - BLUE POWDER COAT
2. MARKING: APPROX AS SHOWN PER MIL-STD-130.

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APPROVALS	DATE				
DRAWN JM	11-7-17				
CHECKED		SIZE A	FSCM NO. 71A34	DWG NO. PRELIMINARY	REV. 1
ISSUED		SCALE N:S	SHEET 2 OF 2		