

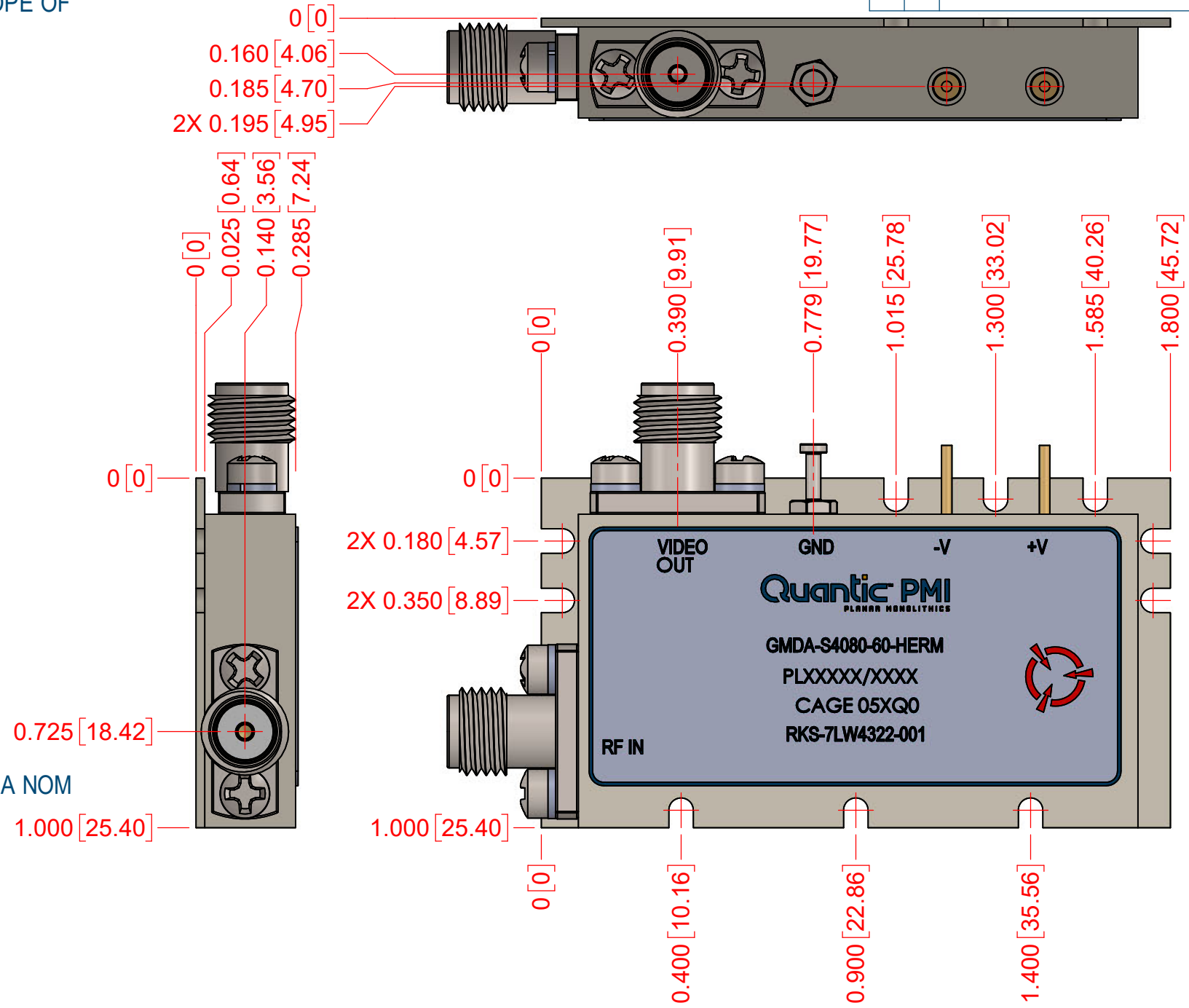
DESCRIPTION:

PMI MODEL NO. GMDA-S4080-60-HERM IS A 4.0 TO 8.0 GHz SUCCESSIVE DETECTION LOG VIDEO AMPLIFIER (SDLVA) WITH A MINIMUM TSS OF -60dBm AND A NOMINAL LOG SLOPE OF 25.0 ±1.0 mV/dB.

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	11/27/2023	
	1	UPDATE MECHANICAL	12/12/2023	

SPECIFICATIONS:

- FREQUENCY RANGE:..... 4 GHz TO 8 GHz
 - TSS:..... -60 dBm MAX
 - INPUT POWER HANDLING:..... +23 dBm CW MAX
 - VIDEO LOG RANGE:..... -55 dBm TO +5 dBm
 - VIDEO LOG LINEARITY*:..... ±1.5 dB MAX @ +25C
±2.2 dB MAX OVER TEMP
 - VIDEO LOG SLOPE:..... 25.0 ±1.0 mV/dB MAX
25.0 ±2.0 mV/dB MAX OVER TEMP
 - VIDEO FREQ FLATNESS:..... 100mV p-p MAX
 - VIDEO RISE TIME:..... 30ns MAX
 - VIDEO FALL TIME :..... 50ns MAX
 - RECOVERY TIME:..... 100ns MAX
 - THROUGHPUT TIME:..... 30ns MAX
 - VIDEO BANDWIDTH:..... 10 MHz MAX
 - VIDEO OUTPUT LOG IMPEDANCE:..... 75Ω
 - MAXIMUM OUTPUT VOLTAGE:..... +2.5 V MAX
 - INPUT VSWR 50Ω:..... 2.2:1 MAX
 - OFFSET VOLTAGE:..... ±50 mV MAX @ +25C
±80 mV MAX @ -15C TO +85C
 - DC POWER SUPPLY:..... +11.4 TO +15.75 @550mA MAX, 450mA NOM
-11.4 TO -15.75 @150mA MAX
 - RF OUTPUT :..... NOT SPECIFIED
 - WEIGHT:..... 50g MAX
 - SEALING:..... HERMETICLY SEALED
 - FINISH:..... NICKEL PLATED PER MIL-C-26074
- * Specification of Logging Linearity Acceptance test: ±2.0dB MAX at +25C



ENVIRONMENTAL RATINGS:

- TEMPERATURE:..... -15°C TO + 85°C (OPERATING)
-20°C TO +85°C (STORAGE)
- HUMIDITY:..... MIL-E-5400T, 3.3.24.4, 100 %RH
- SHOCK:..... MIL-E-5400T, 3.3.24.6.1, 147 m/s² 11ms 3 times x 6 directions
- VIBRATION:..... MIL-E-5400, 3.3.24.5.1.2, Fig.2 Curve III
- ALTITUDE:..... 0 TO 4,572 m(15,000 ft)

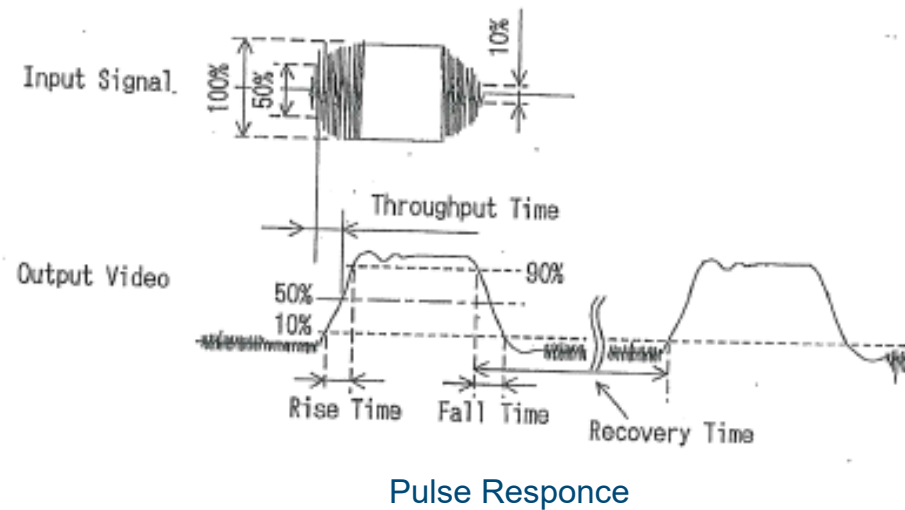
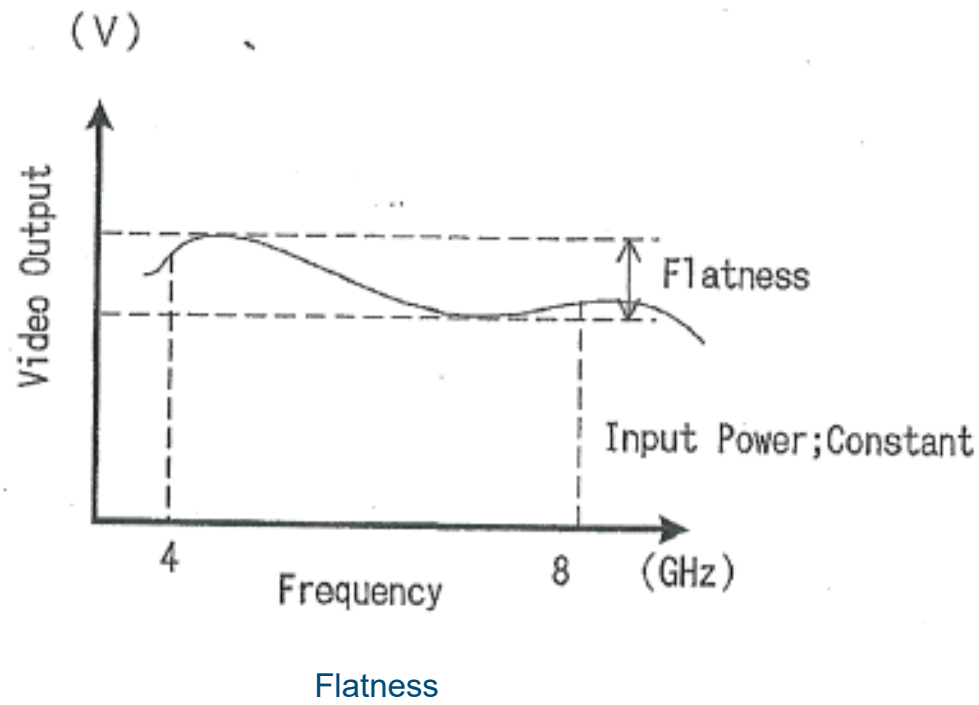
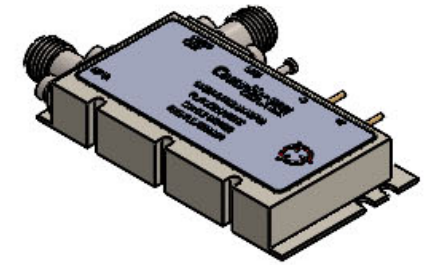
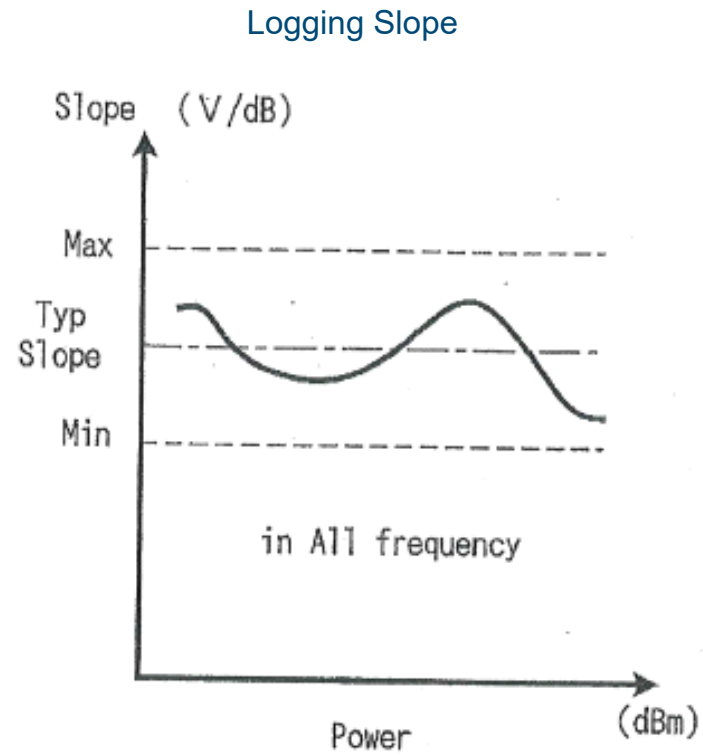
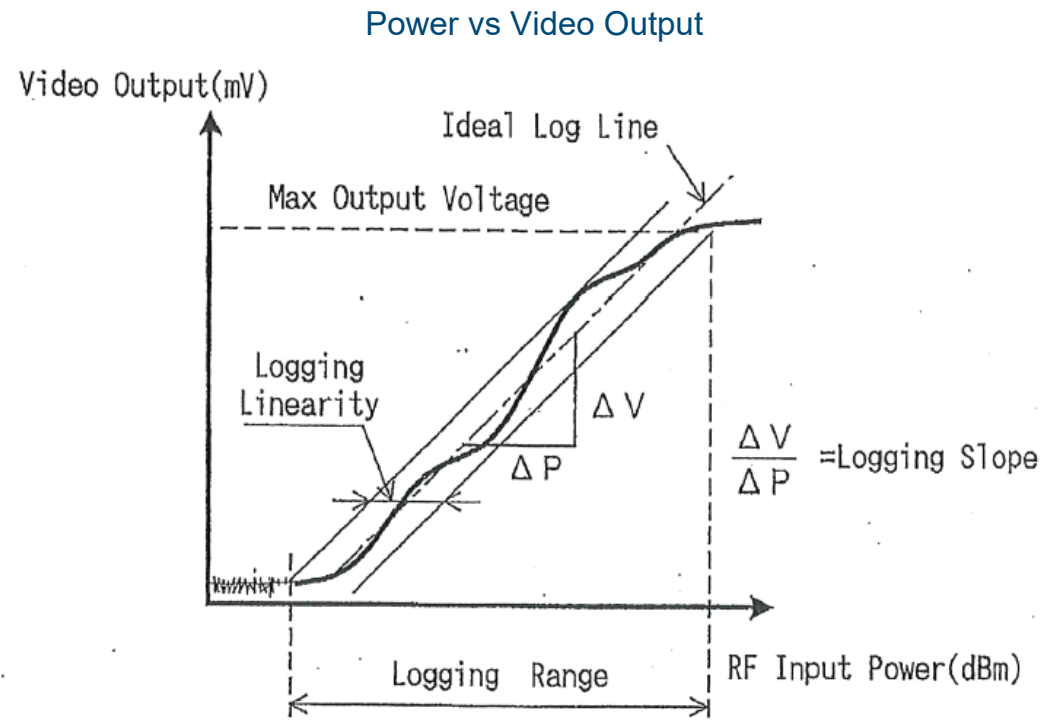
PMI CONFIDENTIAL AND PROPRIETARY

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:		PART NO.		 7309-A GROVE ROAD FREDERICK MARYLAND 21704 USA TEL: (301) 862-5019, FAX: (301) 662-1731 WEB: WWW.PMI-RF.COM, EMAIL: SALES@PMI-RF.COM ISO 9001 CERTIFIED	
FRACTIONS ±	DECIMALS .XX ± 0.010 .XXX ± 0.005	ANGLES ±	APPROVALS		
MATERIAL:		DRAWN M LAULIS		TITLE	
FINISH:		REISSUED		OUTLINE	
NEXT ASSY		USED ON		GMDA-S4080-60-HERM	
APPLICATION				SIZE B	FSCM NO. 05XQ0
				DWG NO. PRELIMINARY	
				SCALE 2:1	REV. 1
				SHEET 1 OF 2	

DESCRIPTION:

PMI MODEL NO. GMDA-S4080-60-HERM IS A 4.0 TO 8.0 GHz SUCCESSIVE DETECTION LOG VIDEO AMPLIFIER (SDLVA) WITH A MINIMUM TSS OF -60dBm AND A NOMINAL LOG SLOPE OF 25.0 ±1.0 mV/dB.

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	11/27/2023	
	1	UPDATE MECHANICAL	12/12/2023	



PMI CONFIDENTIAL AND PROPRIETARY

PART NO.		 <small>7309-A GROVE ROAD FREDERICK MARYLAND 21704 USA TEL: (301) 862-5019, FAX: (301) 652-1731 WEB: WWW.PMI-RF.COM, EMAIL: SALES@PMI-RF.COM ISO 9001 CERTIFIED</small>			
APPROVALS	DATE				
DRAWN M LAULIS	11/27/2023	TITLE OUTLINE			
ISSUED		GMDA-S4080-60-HERM			
		SIZE B	FSCM NO. 05XQ0	DWG NO. PRELIMINARY	REV. 1
		SCALE 2:1	SHEET 2 OF 2		