DESCRIPTION:

PMI MODEL NUMBER DTA-224-15D5DB-5B-292FF IS A 5 BIT PROGRAMMABLE 15.5 dB ATTENUATOR WITH STEP RESOLUTION AS LOW AS 0.5 dB OVER THE FREQUENCY RANGE OF 2 GHz TO 24 GHz. THIS MODEL IS OFFERED IN THE SLIM LINE HOUSING MEASURING ONLY 0.4" IN HEIGHT WITH SMA FEMALE CONNECTORS.

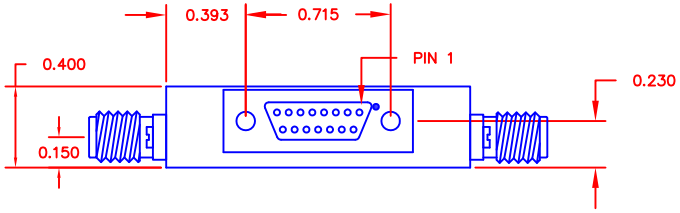
REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	—	PRELIMINARY	11/3/2022	

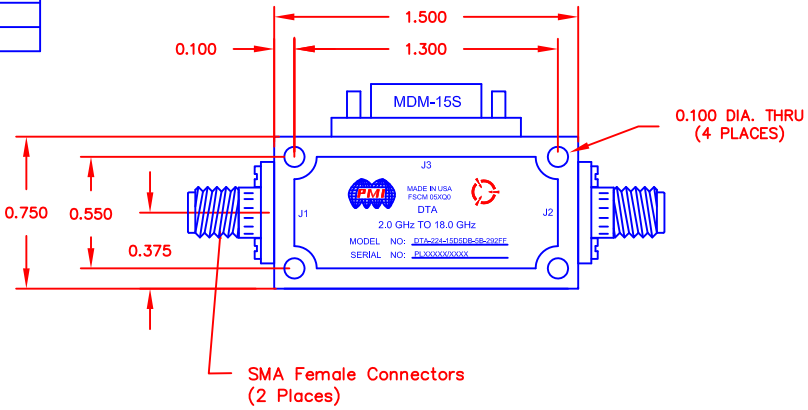
MECHANICAL OUTLINE

SPECIFICATIONS:

FREQUENCY:	2.0 GHz TO 24.0 GHz
ATTENUATION RANGE:	15.5 dB
ATTENUATION STEP SIZE:	0.5 dB MAX
INSERTION LOSS:	5 dB MAX
VSWR:	2.0:1 MAX
POWER HANDLING CAPABILITY:	+27 dBm CW MAX
INPUT 0.1dB COMPRESSION:	+26 dBm TYP
IIP3	+43 dBm MIN
SWITCHING SPEED:	100 ns MAX
POWER SUPPLY:	+5 & -5 VDC / +/- 50 mA MAX
CONNECTORS:	(2) 2.92mm (F) & 15 PIN Micro-D-Female
LOGIC INPUT:	LOGIC "0" (BIT ON) : 0 to +0.8V (1uA) LOGIC "1" (BIT OFF) : +2.0 to +5.0V (1uA)
WEIGHT:	2.0 oz MAX
SIZE:	1.5" x 0.75" x 0.4"
FINISH:	BLUE EPOXY POLIMIDE COATING IAW MIL-C-22750, TYPE I OVER EPOXY POLIMIDE PRIMER IAW MIL-P-23377, TYPE I, CLASS 1 OR 3.

PIN NO:	J3 PIN FUNCTIONS
1	0.5 dB (LSB)
2	1.0 dB
3	2.0 dB
4	4.0 dB
5	8.0 dB
6	15.5 dB (MSB)
7	GND
8	GND
9	GND
10	GND
11	GND
12	+5 VDC
13	GND
14	-5 VDC
15	GND





PMI CONFIDENTIAL AND PROPRIETARY

ENVIRONMENTAL RATINGS

- **TEMPERATURE:** — 0°C TO + 60°C (OPERATING)
  −65°C TO +125°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 CYCLE:** — MIL−STD−202F, METHOD 107D COND. A

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE
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.
7311-F GROVE ROAD
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 CERTIFIED

APPROVALS	DATE
DRAWN SPH	11/3/2022
CHECKED	
ISSUED	

TITLE: PRODUCT FEATURE
DTA−224−15D5DB−5B−292FF

SIZE	FSCM NO.	DWG NO.	REV.
A	05XQ0	PRELIMINARY	—

SCALE N:S | SHEET 1 OF 1