

# QUAD TRON, INC.

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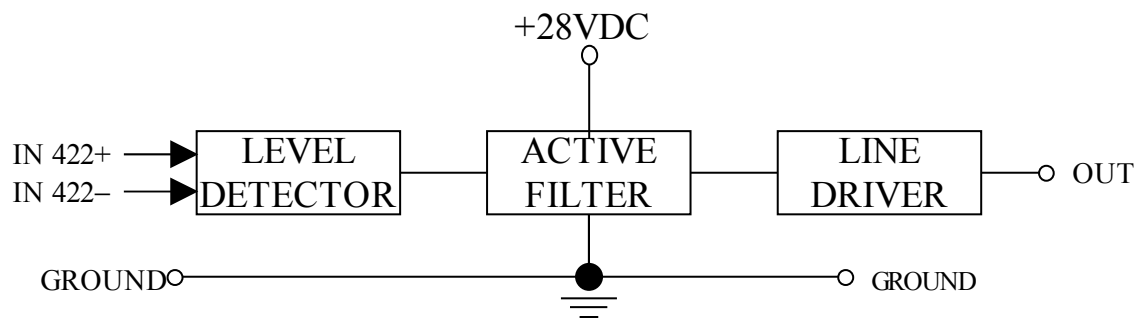
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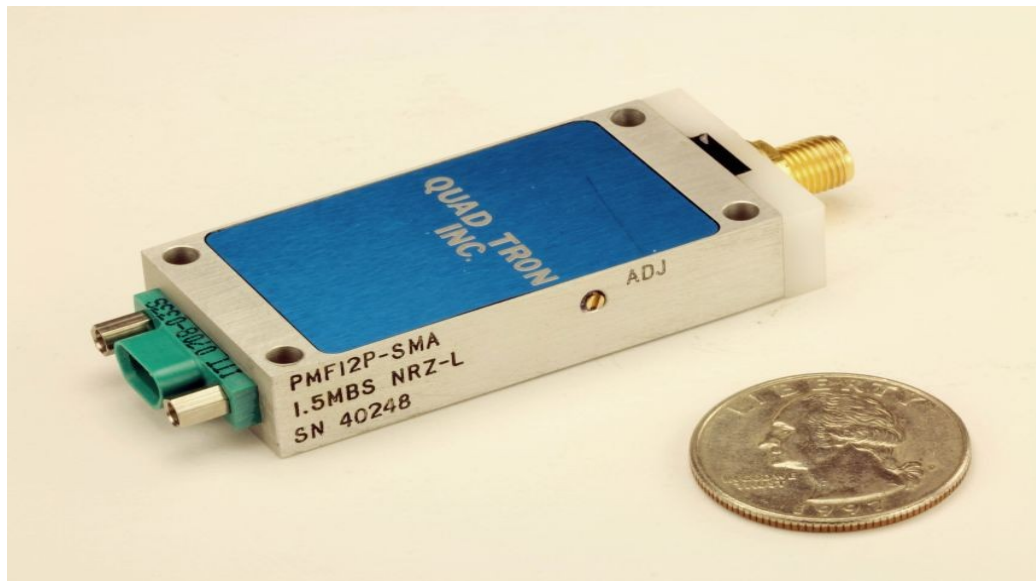
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## PREMODULATION FILTER

### MODEL PMF12P-SMA



The PMF12P-SMA Pre-Modulation Filter is designed to supply additional current drive for low impedance loads (coax cable) at high bit rates with RS-422 input.



The PMF12P-SMA can drive a 75 ohm load in parallel with high capacitive loads at  $\pm 2.5\text{v}$ , 5 megabit NRZ-L.

The RS422 input level detector removes undesirable noise spikes from the PCM data prior to filtering.

## **Features**

Airborne Qualified  
High Stability  
Pot for Amplitude Adjust  
High Gain Accuracy  
Small Size

## **Power Requirements**

Voltage:  $28 \pm 4$  VDC  
Current: 65 ma Nominal  
Over Voltage:  $\pm 40$  VDC

## **Specifications**

Type: 6 Pole Bessel Filter  
Input: RS-422  
Input Impedance:  $> 10$  Meg. Ohms.  
Frequency: (specify) 5K Bit To 20M Bit NRZ-L  
Cutoff Frequency Accuracy:  $\pm 10\%$  of Bit Rate @ 25 degrees C and 28 Vdc  
Cutoff Frequency Stability:  $\pm 10\%$  of Bit Rate from -40 to +85 degrees C and 24 to 32Vdc  
Output: (specify)  $\pm 2.5\text{VDC}$  or 0 +5VDC, Pot Standard  
Output Impedance:  $< 10$  ohms  
Output Connector: SMA  
Temperature Range:  $-40^\circ\text{C}$  To  $+85^\circ\text{C}$

Size:

	inches	mm
Length	2.0	50.8
Width	1.0	25.4
Height	0.43	10.92

## **Environmental:**

Storage Temperature:	-55°C to +125°C
Humidity:	Relative humidity of 95% for two hours at 50°C
Altitude:	Unlimited
Vibration:	30g's RMS from 5 to 2000 Hz in each major axis
Acceleration:	Constant acceleration of 200g's in each axis
Shock:	200g's for 5 milliseconds in each major axis

## **J1 Pin Connections:**

Connector    PN: Cannon MDB1-9S  
Mate         PN: Cannon MDB1-9P

<b><u>Pin</u></b>	<b><u>Function</u></b>
2	GND
3	B+
5	RS422-
7	CHASSIS GND
9	RS422+