



Log Detector With 50 Ohm SMA Male to SMA Female Video Out Operating From 10 MHz to 3 GHz

TECHNICAL DATA SHEET

PE8040

Log Detector With 50 Ohm SMA Male to SMA Female Video Out Operating From 10 MHz to 3 GHz

Configuration

Bias Type	Log Detector
Detector Polarity	Positive
Body Style	Straight
RF Input Connector	SMA Male
RF Input Impedance	50 Ohms
Video Output Connector	SMA Female

Electrical Specifications

Frequency Range, GHz	0.01 to 3
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Frequency 1

Frequency, MHz	10 to 1,000
Return Loss, dB	15

Frequency 2

Frequency, GHz	1 to 2
Return Loss, dB	10

Frequency 3

Frequency, GHz	2 to 3
Return Loss, dB	8

Mechanical Specifications

Size

Length, in [mm]	2.18 [55.37]
Width/Dia., in [mm]	1.18 [29.97]
Height, in [mm]	0.49 [12.45]

RF Input

Type	SMA Male
Dielectric Type	PTFE

Video Output

Type	SMA Female
Dielectric Type	PTFE

Compliance Certifications (visit www.Pasternack.com for current document)

RoHS Compliant	Yes
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Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Log Detector With 50 Ohm SMA Male to SMA Female Video Out Operating From 10 MHz to 3 GHz PE8040](#)

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal.



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Plotted and Other Data

Notes:

Values at 25 °C, sea level

Log Detector With 50 Ohm SMA Male to SMA Female Video Out Operating From 10 MHz to 3 GHz from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

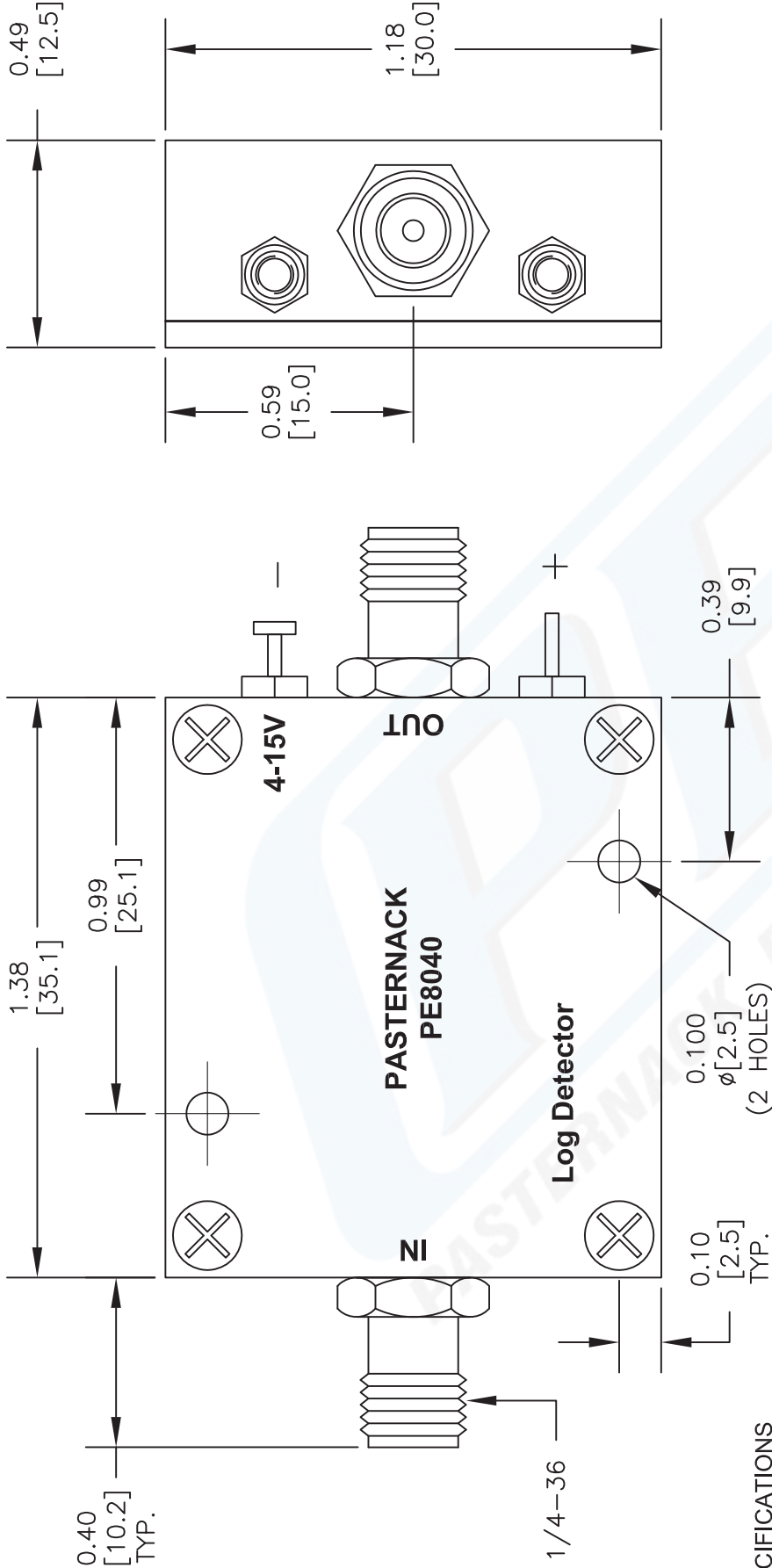
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URL: <http://www.pasternack.com/50-ohm-sma-log-detector-positive-10-mhz-3000-mhz-pe8040-p.aspx>

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PE8040 CAD Drawing

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SPECIFICATIONS

MAX INPUT POWER +10 dBm
OPERATING VOLTAGE 4-15 VDC
OPERATING CURRENT: 20 mA typ

	10-1000 MHz	1-2 GHz	2-3 GHz
SLOPE (mV/dB typ)	41	40	37
INTERCEPT POINT (dBm typ)	-54	-55	-50
DYNAMIC RANGE (dB min)	50	50	50
INPUT IMPEDANCE (ohms)	50	50	50
INPUT RL (dB typ)	-15	-10	-8
OUTPUT CURRENT (mA max)	10	10	10
OUTPUT VOLTAGE (V max)	2.1	2.1	2
OUTPUT SLEW RATE (V/ μ sec typ)	1	1	1



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DWG TITLE

PE8040

FSCM NO. 53919

NOTES:
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
3. DIMENSIONS ARE IN INCHES [mm].

CAD FILE 040313-C

SCALE N/A

SIZE A

2233