



Detector, SMA, Video Out, 3 MHz to 300 MHz

Detectors Technical Data Sheet

PE80T4000

The PE80T4000 is a Phase Detector that operate with an input frequency range from 3 MHz to 300 MHz. This Detector is designed with an integrated Loop Filter for ease of use in Phase Locked Loop Application. The Rugged Package Design utilizes Field Replaceable SMA Female connectors and meets MIL-STD-202F for Altitude, Shock, Vibration, and Humidity

Features

- Frequency Range: 3 to 300MHz
- Input Power: -10 to +17 dBm
- Integrated Loop Filter
- DC Power: 12V
- Operating Temperature: -40°C to 85°C
- Field Replaceable SMA Connetors
- Designed to meet MIL-STD-202F Test Conditions

Applications

- Electronic Warfare
- Test & Measurement
- Military & Space
- Phase Locked Loop System
- Military Communications Systems

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	3 MHz		300 MHz	
VSWR		1.2:1	2:1	
Input Power	-10		+17	dBm
Phase Noise				
@ 1KHz Offset, Fo = 2000 MHz, Ref = 25 MHz		-85		dBc/Hz
@ 1KHz Offset, Fo = 3300 MHz, Ref = 275 MHz		-89		dBc/Hz
Loop Filter Bandwidth	5	10		KHz
Tuning Voltage Output Range	0.1		4.9	V
DC Power Supply @ +15 Volts			200	mA
Operating Temperature Range	-40		+85	deg C

Mechanical Specifications

Environmental Specifications

Temperature

Operating Range -40 to +85 deg C
Storage Range -55 to +125 deg C

Humidity MIL-STD-202F, Method 103B, Condition B
Shock MIL-STD-202F, Method 213B, Condition B
Vibration MIL-STD-202F, Method 204D, Condition B
Altitude MIL-STD-202F, Method 105C, Condition B

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Detector, SMA, Video Out, 3 MHz to 300 MHz PE80T4000](#)



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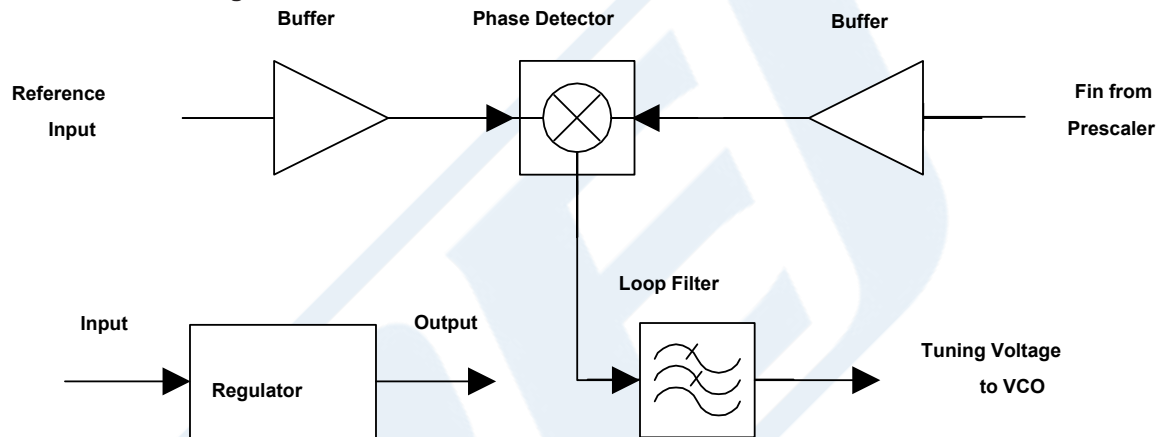
PE80T4000

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

Functional Block Diagram



Detector, SMA, Video Out, 3 MHz to 300 MHz from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

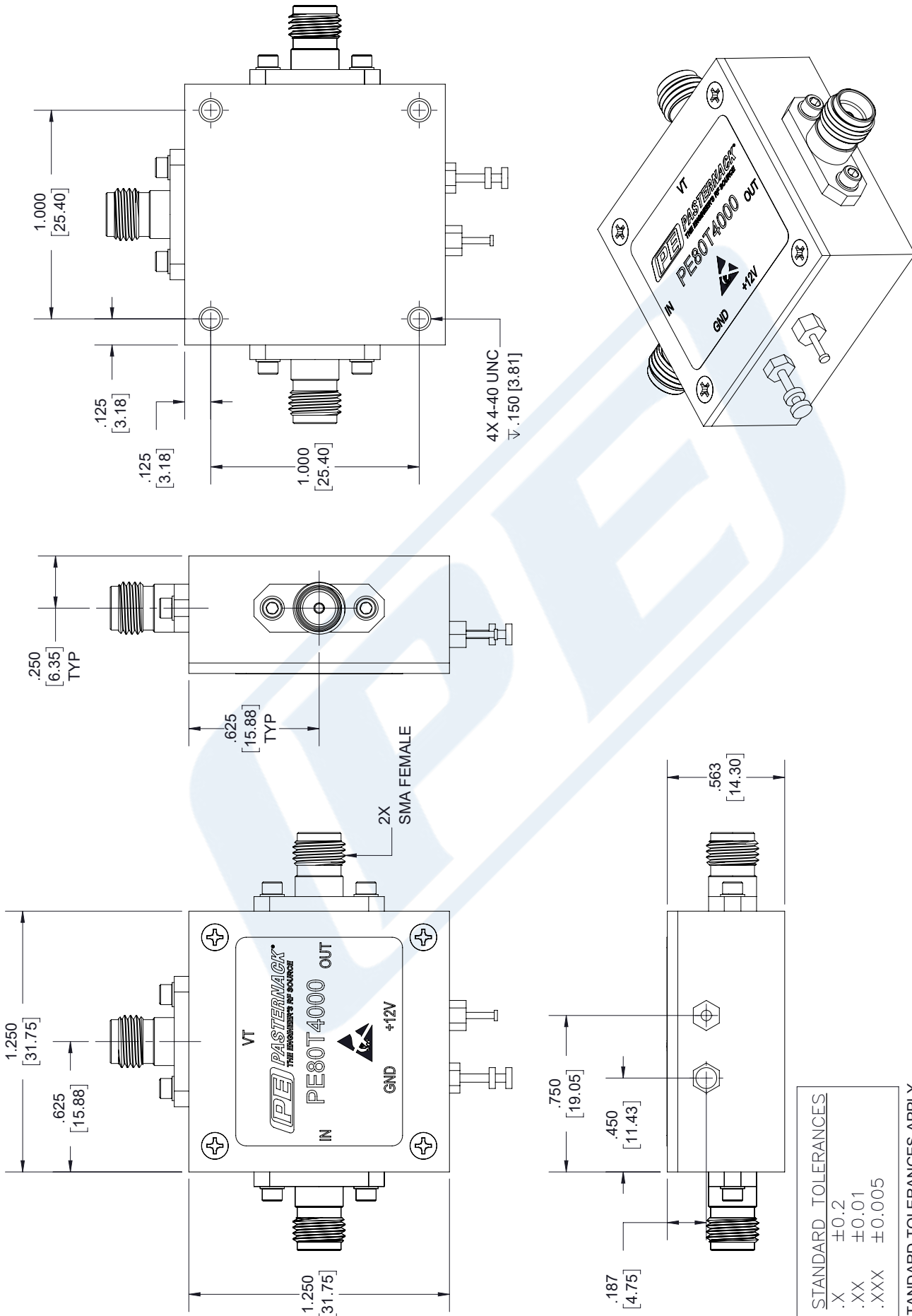
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URL: <https://www.pasternack.com/detector-sma-3-300-mhz-pe80t4000-p.aspx>

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. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

PE80T4000 CAD Drawing

Detector, SMA, Video Out, 3 MHz to 300 MHz



STANDARD TOLERANCES	
.X	±0.2
.XX	±0.01
.XXX	±0.005

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

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DWG TITLE	PE80T4000
CAGE CODE	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	04/26/18
SCALE	N/A
SIZE	A
	7361