

Frequency Divider, Divide by 15 Prescaler Module, 100 MHz to 7 GHz, SMA



Frequency Dividers Technical Data Sheet

PE88D15000

Features

- Wide Input Frequency Range: 100 MHz to 7 GHz
- Divide-by-15 Prescaler
- Output Frequency 6.67 MHz to 466.7 MHz
- Output Power: -1 dBm typical
- Low SSB Phase Noise: -150 dBc/Hz @ 100 KHz offset typical
- RoHS & REACH Compliant Assembly
- Bias Voltage: +12 Vdc
- Operational Temperature Range: -40°C to +85°C
- Compact SMA Connectorized Package
- Designed to meet MIL-STD-202 Test Conditions

Base Stations

Applications

- PLL Applications
- Test InstrumentationCountermeasures
- Point to Point Microwave Radio
- SATCOM
- MILCOM

Description

The PE88D15000 is a coaxial packaged Frequency Divider module that operates across a wide input frequency range from 100 MHz to 7 GHz and supports a divide ratio of 15. Output Frequency is 6.67 MHz to 466.7 MHz. Impressive broadband typical performance of this Prescaler includes output power of -1 dBm and SSB phase noise of -150 dBc/Hz at 100 kHz offset. This exceptional technical performance is achieved through the use of a hybrid MIC PCB solder assembly which is RoHS and REACH compliant. This frequency divider design requires +12 Vdc typical bias voltage, operates over maximum temperature range of -40°C to +85°C, and has an absolute maximum rating for input power of +13 dBm. The rugged and compact package supports SMA Female connectors, RFI and Ground Pins. For highly reliable operation, the model is guaranteed to meet MIL-STD-202 environmental test conditions for Humidity, Shock, Vibration, and Altitude.

Electrical Specifications (TA= 25°C, Vd1 = 12 Vdc, Id1 = 150 mA)

Description	Minimum	Typical	Maximum	Units
Input Frequency (Sine Wave)	0.1		7	GHz
Output Frequency (Square Wave Output)	6.67		466.7	MHz
Output Power	-4	-1		dBm
Phase Noise @100kHz Offset		-150		dBc/Hz
Operating DC Voltage 1	9	12	15	V
Operating DC Current 1		150	170	mA

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Frequency Divider, Divide by 15 Prescaler Module, 100 MHz to 7 GHz, SMA PE88D15000

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 Phone: (866) 727-8376 or (949) 261-1920 • Fax: (949) 261-7451 Sales@Pasternack.com • Techsupport@Pasternack.com



Frequency Divider, Divide by 15 Prescaler Module, 100 MHz to 7 GHz, SMA



Frequency Dividers Technical Data Sheet

PE88D15000

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	0.1 to 6	6 to 7				GHz
Input Power (CW), Max	12	10				dBm
Input Power (CW), Typ	0	0				dBm
Input Power (CW), Min	-12	-10				dBm

Mechanical Specifications

Size

 Length
 1.25 in [31.75 mm]

 Width
 1.25 in [31.75 mm]

 Height
 0.563 in [14.3 mm]

 Input Connector
 SMA Female

 Output Connector
 SMA Female

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, Codition B
Vibration MIL-STD-202F, Method 204D, Condition B
Altitude MIL-STD-202F, Method 105C, Condition B

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Frequency Divider, Divide by 15 Prescaler Module, 100 MHz to 7 GHz, SMA PE88D15000



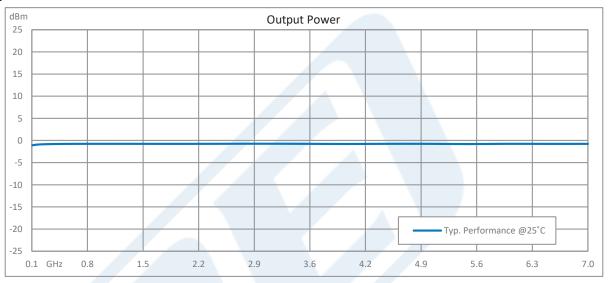
Frequency Divider, Divide by 15 Prescaler Module, 100 MHz to 7 GHz, SMA



Frequency Dividers Technical Data Sheet

PE88D15000

Typical Performance Data



Frequency Divider, Divide by 15 Prescaler Module, 100 MHz to 7 GHz, SMA 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Frequency Divider, Divide by 15 Prescaler Module, 100 MHz to 7 GHz, SMA PE88D15000

URL: https://www.pasternack.com/frequency-divider-divide-15-prescaler-module-100-mhz-7-ghz-sma-pe88d15000-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.

PE88D15000 CAD Drawing

Frequency Divider, Divide by 15 Prescaler Module, 100 MHz to 7 GHz, SMA

