

SMA Frequency Divider Divide by 32 Prescaler Module Operating from 400 MHz to 4 GHz

The FMFD32000 is a coaxial packaged Frequency Divider module that operates across a wide input frequency range from 400 MHz to 4 GHz and supports a divide ratio of 32. Output Frequency is 12.5 MHz to 125 MHz. Impressive broadband typical performance of this Prescaler includes output power of 0 dBm and SSB phase noise of -144 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 = 70 mA)

Description	Min	Тур	Max	Units
Input Frequency (Sine Wave) 0.4			4	GHz
Output Frequency (Square Wave O	utput) 12.5		125	MHz
Output Power	-2	1		dBm
Phase Noise @100kHz Offset		-144		dBc/Hz
Operating DC Voltage 1	9	12	15	V
Operating DC Current 1		70	85	mA

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	0.4 to 3	3 to 4				GHz
Input Power (CW), Max	12	12				dBm
Input Power (CW), Typ	0	0				dBm
Input Power (CW), Min	-12	-3				dBm

Mechanical Specifications

Size	
Length 1.25 in [31.75 in	mm]
Width 1.25 in [31.75 in	mm]
Height 0.563 in [14.3 in	mm]
Output Connector SMA Female	

Environmental Specifications

Temperature

Operating Range Storage Range Humidity

Shock

Vibration

-40 to +85 deg C -55 to +125 deg C MIL-STD-202F, Method 103B, Condition B MIL-STD-202F, Method 213B, Codition B MIL-STD-202F, Method 204D, Condition B



FMFD32000 DATA SHEET

Features:

- Wide Input Frequency Range: 400 MHz to 4 GHz
- Divide-by-32 Prescaler
- Output Frequency 12.5 MHz to 125 MHz
- Output Power: 0 dBm typical
- Low SSB Phase Noise: -144 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

Applications:

- PLL Applications
- Test Instrumentation
- Countermeasures
- Point to Point Microwave Radio
- SATCOM
- MILCOM
- Base Stations

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Altitude

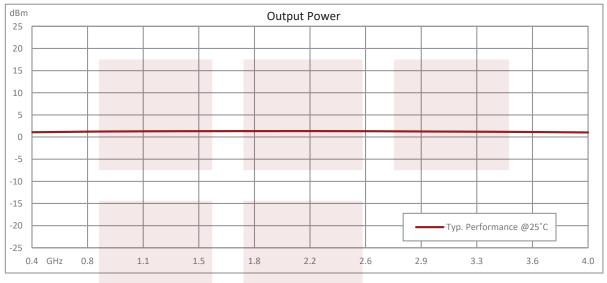
MIL-STD-202F, Method 105C, Condition B

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Typical Performance Data



SMA Frequency Divider Divide by 32 Prescaler Module Operating from 400 MHz to 4 GHz from Fairview Microwave is instock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

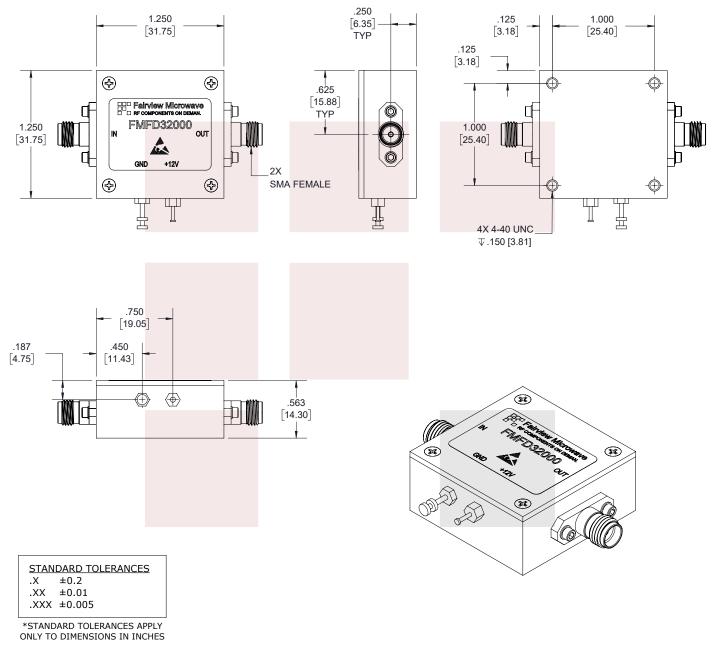
For additional information on this product, please click the following link: SMA Frequency Divider Divide by 32 Prescaler Module Operating from 400 MHz to 4 GHz FMFD32000

URL: https://www.fairviewmicrowave.com/sma-frequency-divider-divide-32-prescaler-module-400-mhz-4-ghz-fmfd32000-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. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.







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an INFINIT [®] brand	3. DIMENSIONS ARE IN INCHES [mm].							
SMA Frequency Divider Divide by 32 Prescaler Module Operating from 400 MHz to 4 GHz	DWG NO FMFD32000				CAGE CODE 3FKR5			
	CAD FILE	05/10/19	SHEET	1 OF 1	SCAL	.e N/A	SIZE A	7361

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