

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

The FMFD15000 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	Min	Тур	Max	Units
Input Frequency (Sine Wave) 0.1			7	GHz
Output Frequency (Square Wave O	utput) 6.67		466.7	MHz
Output Power	-4	-1		dBm
Phase Noise @100kHz Offse	et	-150		dBc/Hz
Operating DC Voltage 1	9	12	15	V
Operating DC Current 1		150	170	mA

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 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



FMFD15000 DATA SHEET

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

Applications:

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

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Altitude

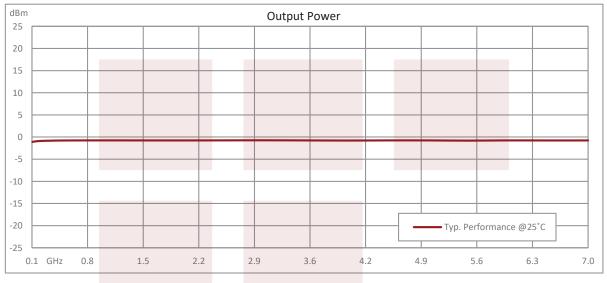
MIL-STD-202F, Method 105C, Condition B

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Typical Performance Data



SMA Frequency Divider Divide by 15 Prescaler Module Operating from 100 MHz to 7 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.

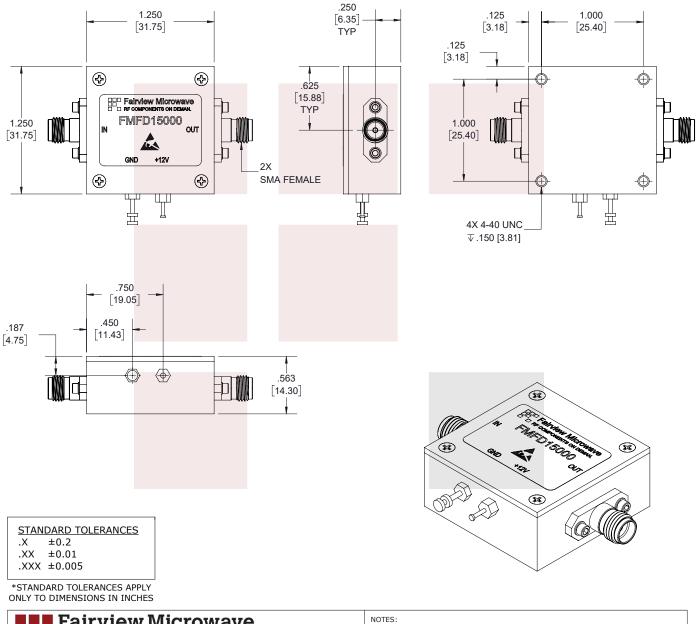
For additional information on this product, please click the following link: SMA Frequency Divider Divide by 15 Prescaler Module Operating from 100 MHz to 7 GHz FMFD15000

URL: https://www.fairviewmicrowave.com/sma-frequency-divider-divide-15-prescaler-module-100-mhz-7-ghz-fmfd15000-p.aspx

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Fairview Microwave	NOTES: 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL. 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.					
an INFINIT [®] brand	3. DIMENSIONS ARE IN INCHES [mm].					
mue SMA Frequency Divider Divide by 15 Prescaler Module Operating from 100 MHz to 7 GHz	DWG NO FMFD15000			CAGE CODE 3FKR5		
	CAD FILE 04/26/18	SHEET 1 OF 1	SCAL	E N/A	SIZE A	7361

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