



Planar Monolithics Industries, Inc.

RF & Microwave Components and Modules to 40GHz

ISO9001:2008 Certified

6.0 to 18.0GHz, Frequency Synthesizer PMI Model No. PFS-618-CD-1



PMI Model No. PFS-618-CD-1 is a high speed frequency synthesizer that operates over the frequency range of 6.0 to 18.0GHz. This model covers the complete 6.0 to 18.0GHz frequency in 100kHz steps with an output power of \pm 10dBm minimum. The unit is accurate to within \pm 1MHz and settles within 1usec maximum. This model features low SSB Noise and a low spurious output of \pm 55dBc maximum. Harmonics are kept below \pm 30dBc. Frequency Modulation is offered and has a bandwidth of DC to 10MHz with \pm 400MHz minimum at 100MHz / volt. The package is compact in size and measures only 6.48" x 6.23" x 1.6".

Frequency Range	6.0 to 18.0GHz	
Frequency Step Size, Nominal (LSB)	100kHz	
Power Output Level	+10dBm Min.	
Power Variation	5dB P-P (±2.5dB) Max.	
Frequency Accuracy	±1MHz Max.	
Frequency Aging	±2 PPM / Year	
Settling Time to 1MHz	1usec	
Tuning Control	Binary, TTL 17 Bits (Parallel)	
Tuning Speed	1usec	
SSB Noise	6.0 to 18.0GHz Max.	
@ 1kHz Offset	-78dBc / Hz	
@ 100kHz Offset	-96dBc / Hz	
@ 10MHz Offset	-100dBc / Hz	
Spurious Output	-55dBc Max.	
Harmonics	-30dBc Max.	
Sub-Harmonics	-55dBc Max.	
Reference	Internal Reference	
Frequency Modulation		
Modulation Bandwidth	DC to 10MHz	
Frequency Deviation	±400MHz Min., 100MHz / Volt	
Control	Analog	
Sensitivity	1.1 : 1	
Power Supply	+12V @ 2.5A Max. (1.4A measured) -12V @ 0.6A Max, (0.1A measured) +5V @ 4A Max (1.6A measured) -5V @ 2A Max. (0.1A measured)	
Connectors		
Control	37 Pin Sub-D Male	
Power	9 Pin Sub-D Male	
RF Output	SMA Female	
Modulation Input	SMA Female	
Size	6.48" x 6.23" x 1.6"	

PLANAR MONOLITHICS INDUSTRIES, INC.

-20°C to +70 °C Operating

7311-F Grove Road, Frederick, Maryland 21704 USA | Tel: 301-662-5019 | Fax: 301-662-1731

Temperature:

4921 Roberts J. Mathews Parkway Suite 1 El Dorado Hills, CA 95762 USA Tel: 916-542-1401 | Fax: 301-662-1731

Email: sales@pmi-rf.com | www.pmi-rf.com ISO9001:2008 Certified