



Planar Monolithics Industries, Inc.

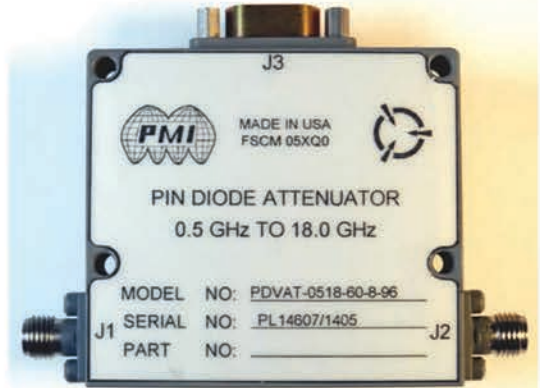
RF & Microwave Components and Modules to 40GHz

ISO9001:2008 Certified

May 21, 2014

0.5 to 18.0GHz 8-Bit Digital 60dB Attenuator PMI Model No. PDVAT-0518-60-8-96

PMI Model PDVAT-0518-60-8-96 is a 8-Bit programmable 60dB PIN diode attenuator with a step resolution as low as 0.25dB over the frequency range of 500MHz to 18.0GHz. This model offers excellent attenuation accuracy and flatness over the entire 500MHz to 18.0GHz frequency range. This model operates on a single +12VDC to +15VDC supply.



Frequency Range	500MHz to 18.0GHz
Insertion Loss	4.0dB Max.
Attenuation Flatness	± 0.9 dB @ 10dB Attenuation – Measured ± 0.26 dB
	± 1.5 dB @ 20dB Attenuation – Measured ± 0.56 dB
	± 3.0 dB @ 40dB Attenuation – Measured ± 0.65 dB
	± 5.0 dB @ 60dB Attenuation – Measured ± 4.58 dB
Attenuation Accuracy	± 1.0 dB @ 0dB to 30dB Attenuation – Measured ± 0.51 dB
	± 1.3 dB @ 30dB to 50dB Attenuation – Measured ± 0.23 dB
	± 1.5 dB @ 50dB to 60dB Attenuation – Measured ± 0.23 dB
Monotonicity	Guaranteed
Temperature Variation	± 2.5 dB (-10 to +85°C)
	± 3.5 dB @ (-40 to +95°C)
Switching Time	1.5 micro sec max
Small Signal Bandwidth	150kHz Typ. (6dB with ± 3 dB sinewave)
Large Signal Bandwidth	75kHz Typ. (30dB with ± 30 dB sinewave)
Return Loss	-12dB typ, -8.5dB max
Power Rating	+20dBm (See Note 1)
Digital Control	8-BIT TTL 0.25dB Minimum Attenuation Step
Analog Control Option	0-6V Analog Voltage, 10dB/Volt
Power Supply	+12 to +15 @ 150mA Max
DC Connector	15 Pin Micro-D Female (Mating Connector Supplied)
RF Connectors	Field Replaceable SMA(F)
Size	2.00 x 1.81 x 0.50

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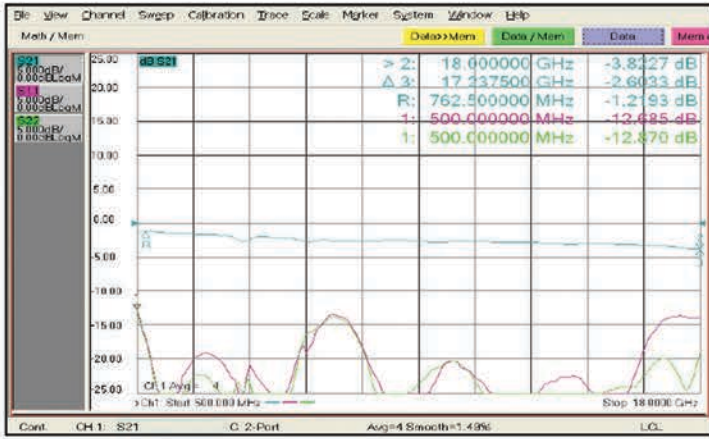
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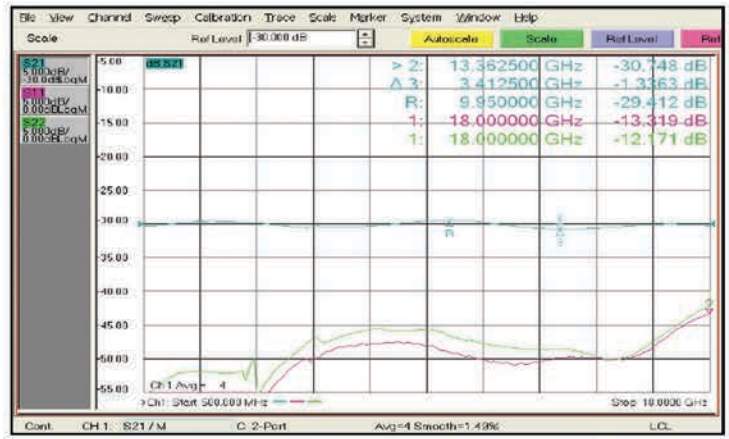
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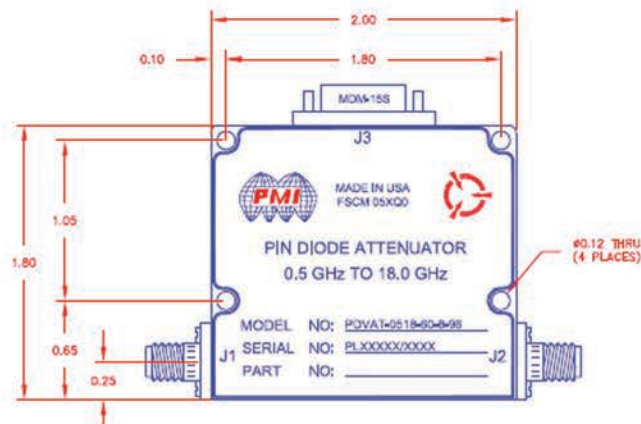
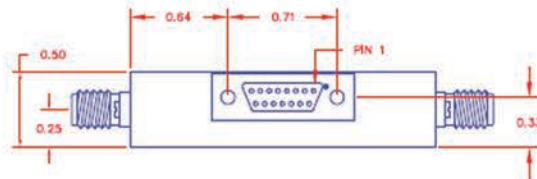
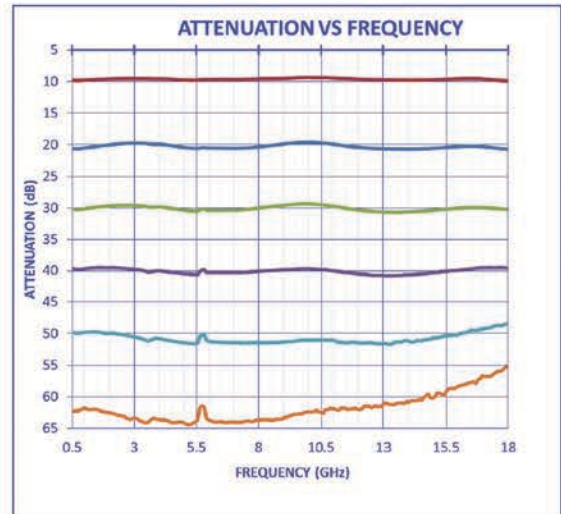
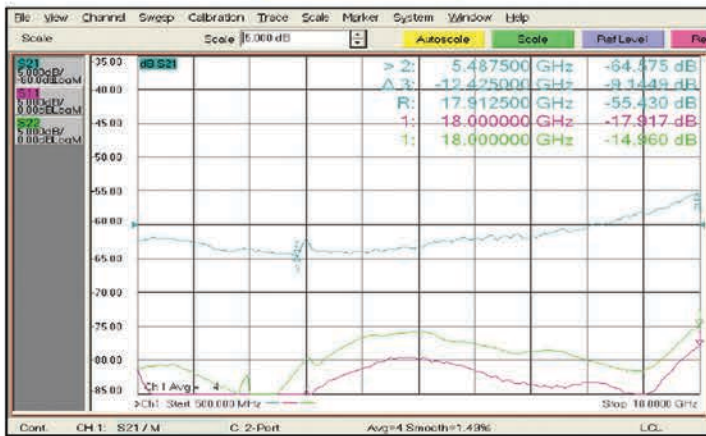
Insertion Loss & Return Loss



-30dB Attenuation



-60dB Attenuation



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