



Typical Characteristics For ATN-30-100M18G-USB

PMI MODEL NO. ATN-30-100M18G-USB IS A STATE-OF-THE-ART ATTENUATOR THAT OPERATES FROM 100MHz TO 18GHz. THIS ATTENUATOR IS CONTROLLED AND POWERED VIA USB 2.0. THIS MODEL OFFERS 30dB OF ATTENUATION IN 1dB STEPS. THE INSERTION LOSS IS TYPICALLY 5dB. THE PACKAGE SIZE IS 2.25" X 1.0" X 0.33".



December 11, 2014
Designed by: PMI Engineering
Reported by: Kevin Mansfield



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DESCRIPTION

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SPECIFICATIONS

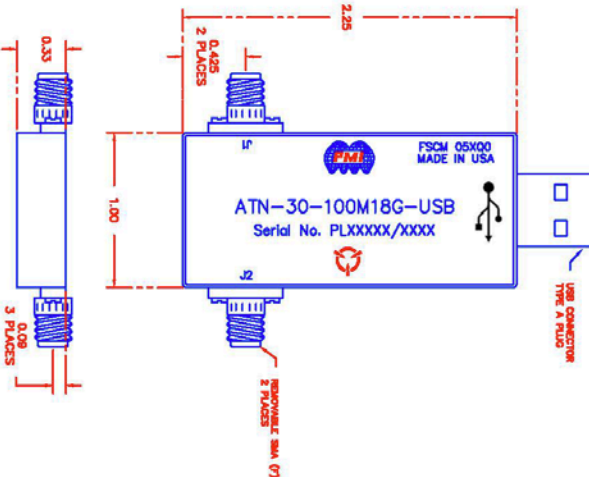
- FREQUENCY: 0.1 TO 18.0 GHz
 - ATTENUATION RANGE: 30dB
 - INSERTION LOSS: 5.0dB TYP.
 - VSWR IN / OUT: 2.5:1 TYP.
 - ATTENUATION ACCURACY: ±2.5dB TYP.
 - ATTENUATION STEP SIZE: 1dB
 - DC SUPPLY AND CONTROL: USB 2.0
 - CONNECTORS: SMA (F)
 - FINISH: GRAY EPOXY POLIMIDE COATING IAW MIL-C-22750, TYPE I OVER EPOXY POLIMIDE PRIMER IAW MIL-P-23377, TYPE I, CLASS 1 OR 3.
 - SIZE: (L) 2.25" X (W) 1.00" X (H) 0.33"
- ### ENVIRONMENTAL RATINGS
- TEMPERATURE: -40°C TO + 85°C OPERATING
-55°C TO +125°C NON-OPERATING

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE.
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION.

ALL DIMENSIONS ARE IN INCHES
TOLERANCES:
XXX .0010
XXX .0010

REVISIONS		DATE	APPROVED
2ND REV.	1	8/25/14	
ORIGINAL RELEASE			

MECHANICAL OUTLINE



PMI CONFIDENTIAL AND PROPRIETARY

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WEBSITE: www.pmi-rf.com
E-MAIL: sales@pmi-rf.com
ISO 9001 CERTIFIED



APPROVALS	DATE	TITLE	REV.
VR	8/25/14	OUTLINE DRAWING	1
CHECKED		ATN-30-100M18G-USB	
ISSUED			
SCALE N:S			1 OF 1



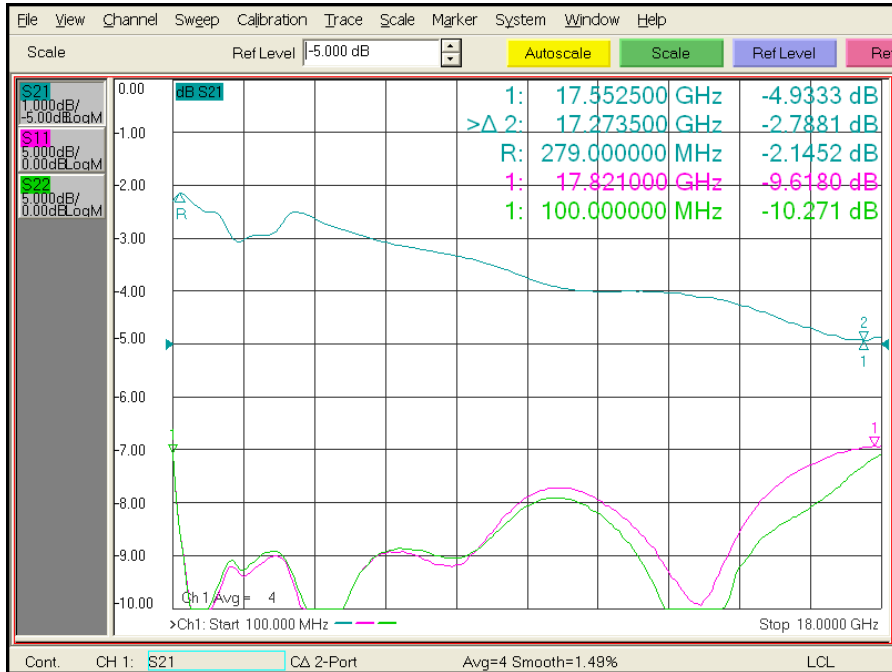
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TEST. ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
1	Frequency:	0.1 to 18.0 GHz	0.1 to 18.0 GHz	
2	Attenuation Range:	30dB	30dB	
3	Insertion Loss:	5db TYP.	4.9db See Plot	
4	VSWR In/Out	2.5:1 TYP.	2.0:1 See Plot	
5	Attenuation Accuracy:	±2.5dB TYP.	±0.6dB	
6	Attenuation Step Size:	1dB	1dB	
7	DC Supply and Control:	USB 2.0	Pass	

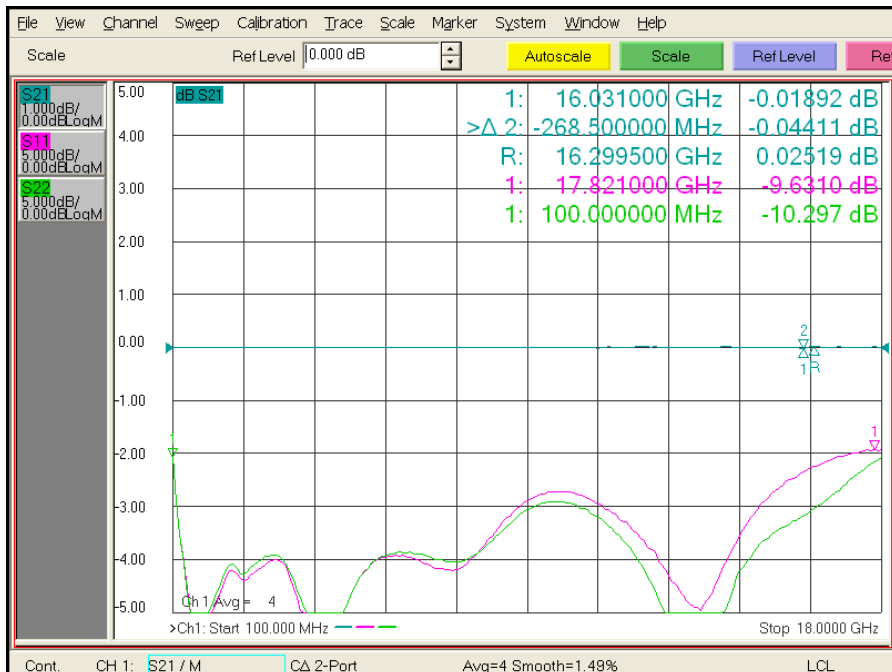


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Insertion Loss & Return Loss



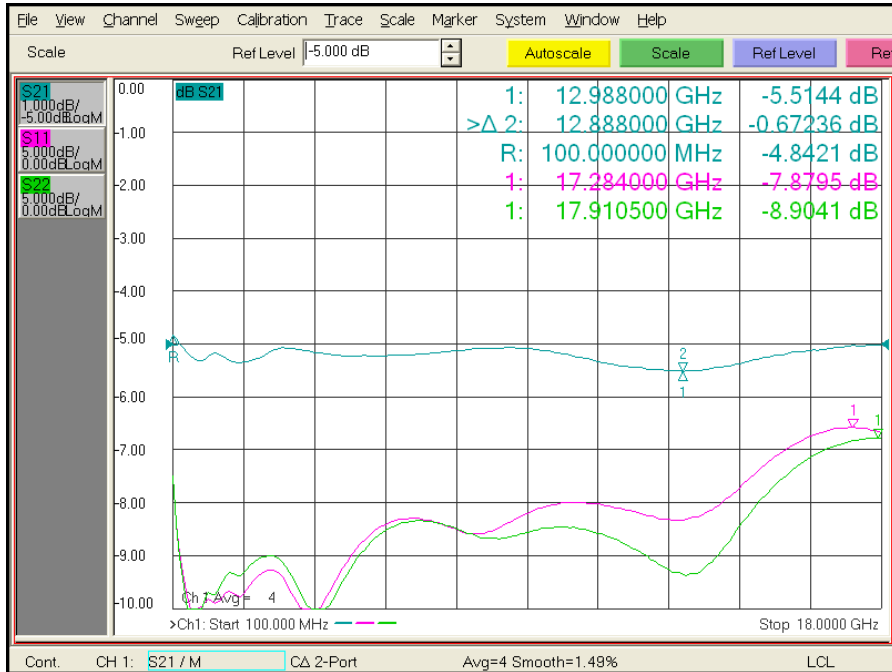
0dB Attenuation



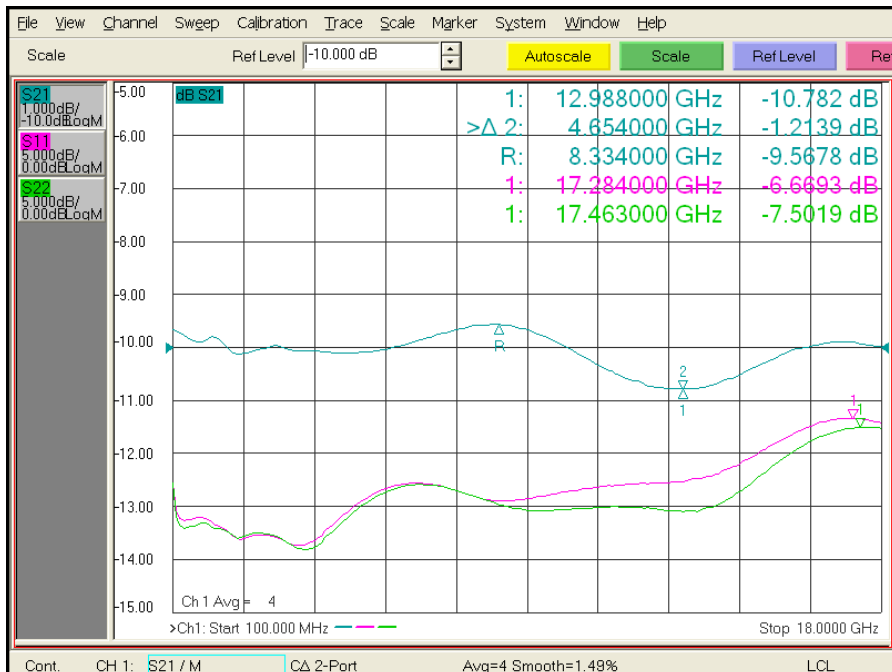


Typical Characteristics For ATN-30-100M18G-USB

5dB Attenuation



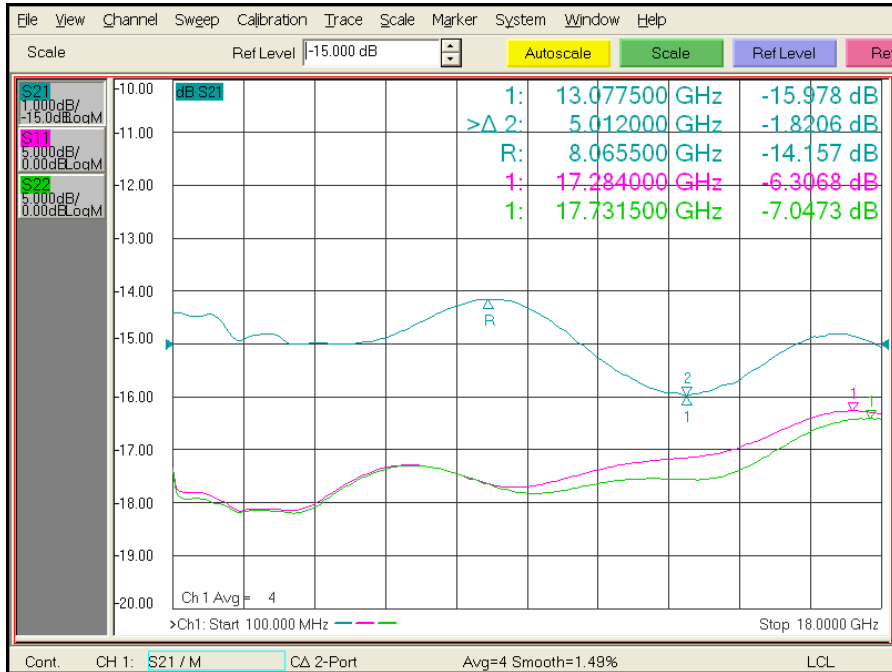
10dB Attenuation



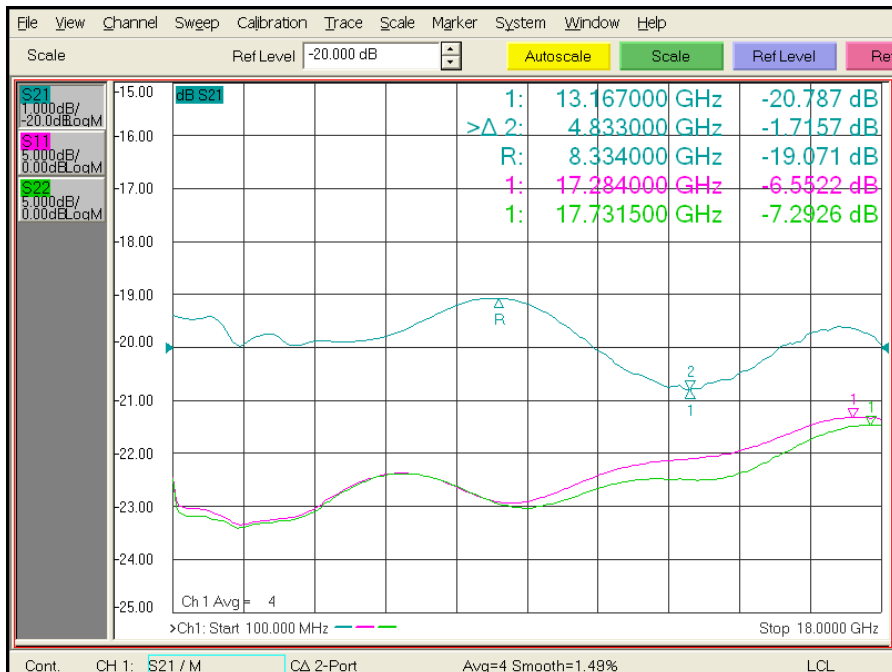


Typical Characteristics For ATN-30-100M18G-USB

15dB Attenuation



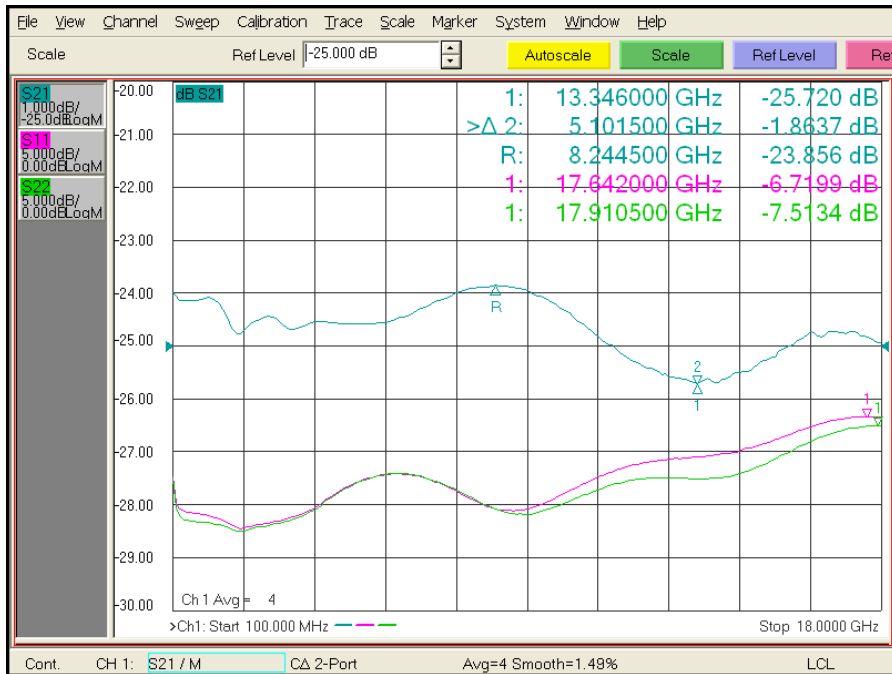
20dB Attenuation





Typical Characteristics For ATN-30-100M18G-USB

25dB Attenuation



30dB Attenuation

