

**TYPICAL CHARACTERISTICS
ON
PCG-12-0DBM-12V-SFF**

PLANAR MONOLITHICS INDUSTRIES MODEL NUMBER PCG-12-0DBM-12V-SFF IS A 1 TO 2 GHz RF INPUT, 1 TO 26 GHz OUTPUT COMB GENERATOR. THE SMALL SIZE ACTIVE UNIT ALLOWS INPUT POWER OF ONLY 0 TO +5 dBm AND IS POWERED WITH +12V.



Tested By
Eric K.
Reported By
Robert S.
Date
2/20/2024

TYPICAL CHARACTERISTICS ON PCG-12-0DBM-12V-SFF

OUTLINE

DESCRIPTION:

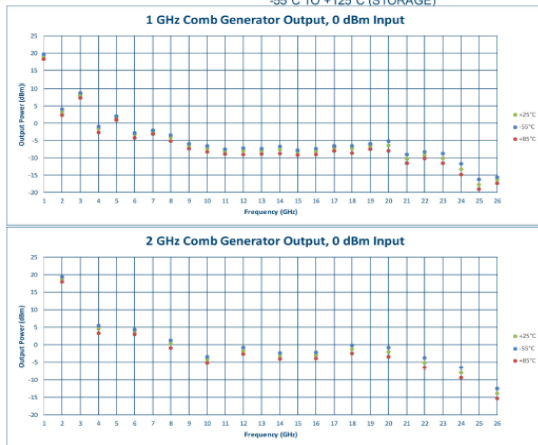
PLANAR MONOLITHICS INDUSTRIES MODEL NUMBER PCG-12-0DBM-12V-SFF IS A 1 TO 2 GHz RF INPUT, 1 TO 26 GHz OUTPUT COMB GENERATOR. THE SMALL SIZE ACTIVE UNIT ALLOWS INPUT POWER OF ONLY 0 TO +5 dBm AND IS POWERED WITH +12V.

SPECIFICATIONS:

- RF INPUT FREQUENCY RANGE:..... 1 TO 2 GHz
- RF INPUT POWER:..... 0 TO +5 dBm
- OUTPUT FREQUENCY RANGE:..... 1 TO 26 GHz
- OUTPUT POWER:..... > -20 dBm TYP
- INPUT VSWR:..... 1.8:1 MAX
- RF CONNECTORS:..... REMOVEABLE SMA FEMALE INPUT AND OUTPUT
- DC POWER SUPPLY:..... +12V @ 380 mA MAX
- SIZE:..... 1" X 0.65" X 0.38"
- FINISH:..... GOLD PLATED

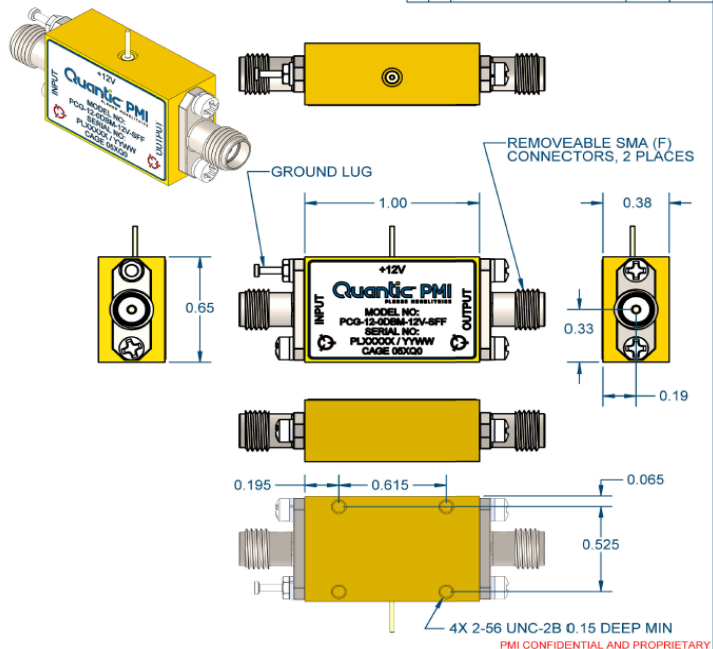
ENVIRONMENTAL RATINGS:

- TEMPERATURE:..... -55°C TO +85°C (OPERATING)
..... -55°C TO +125°C (STORAGE)



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

ZONE	REV	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	6/19/2003	



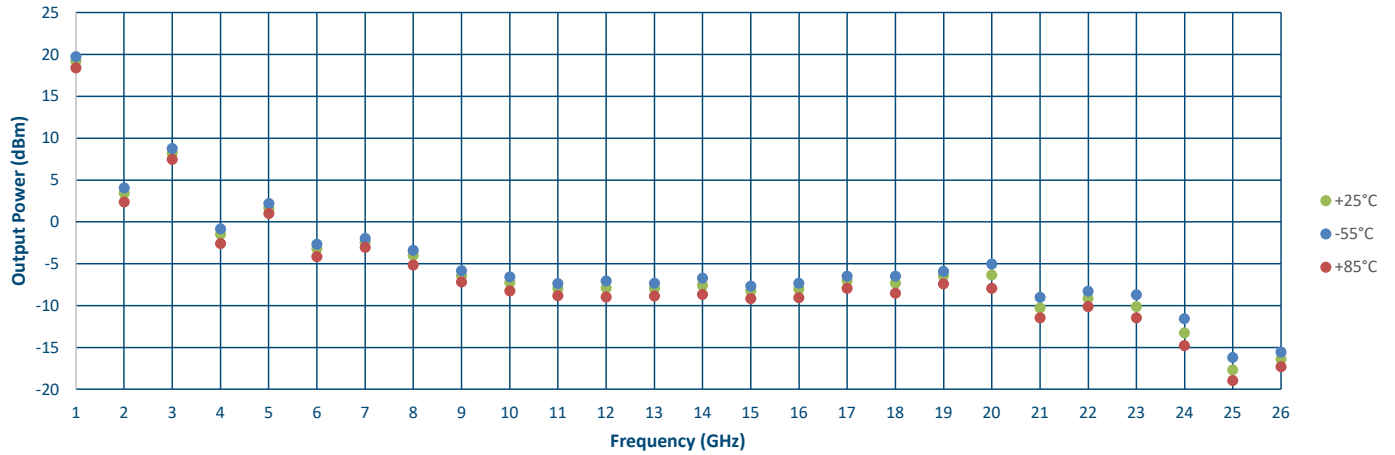
APPROVALS		DATE	TITLE	
DESIGNED	R. SIKK	6/19/2003	PRODUCT FEATURE	
ISSUED			MODEL	REV
			B	05X00
SCALE 2:1			DWG NO.	27046780
			REV	A1

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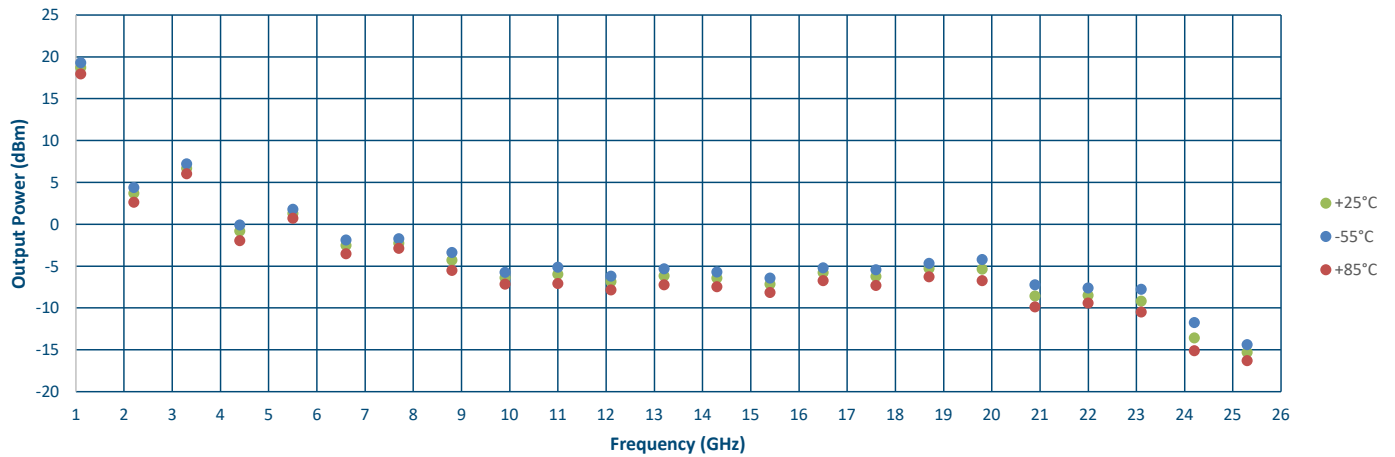
SUMMARY TEST DATA

TEST ITEM NO.	PARAMETERS	SPECIFIED VALUE	Test Results		
			-55°C	25°C	+85°C
1	RF Input Frequency Range:	1 GHz to 2 GHz	1 GHz to 2 GHz		
2	RF Input Power:	0 to +5 dBm	0 to +5 dBm		
3	Output Frequency Range:	1 to 26 GHz	1 to 26 GHz		
4	Output Power	>-20 dBm TYP	-16.21 dBm MIN	-17.69 dBm MIN	-18.94 dBm MIN
5	Input VSWR:	1.8:1 MAX	1.35:1 See Plot	1.34:1 See Plot	1.34:1 See Plot
6	DC Supply	+12V @ 380 mA MAX	323 mA	320 mA	325 mA

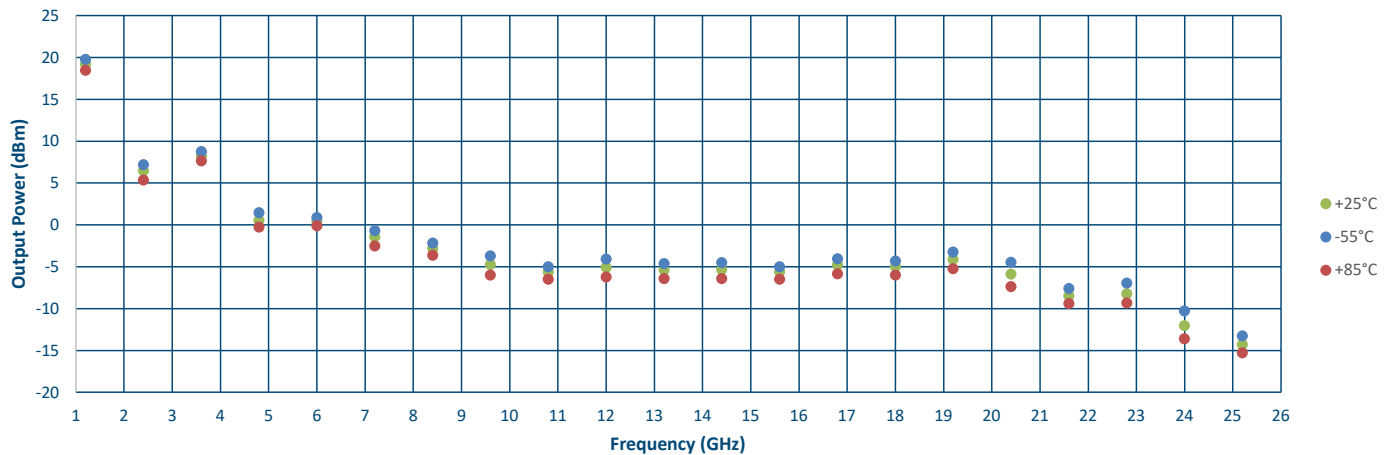
1 GHz Comb Generator Output, 0 dBm Input



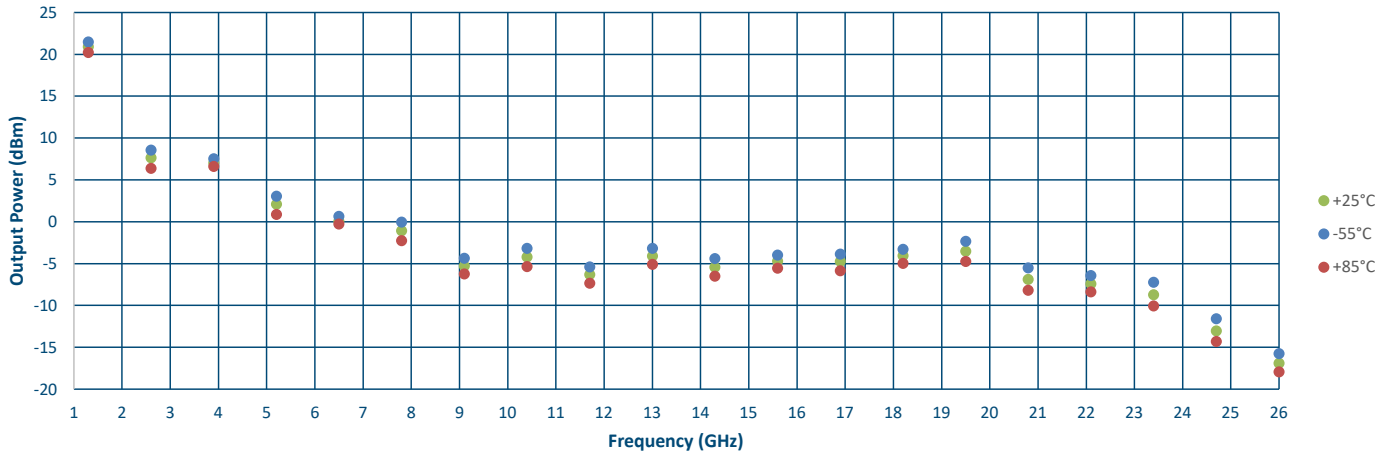
1.1 GHz Comb Generator Output, 0 dBm Input



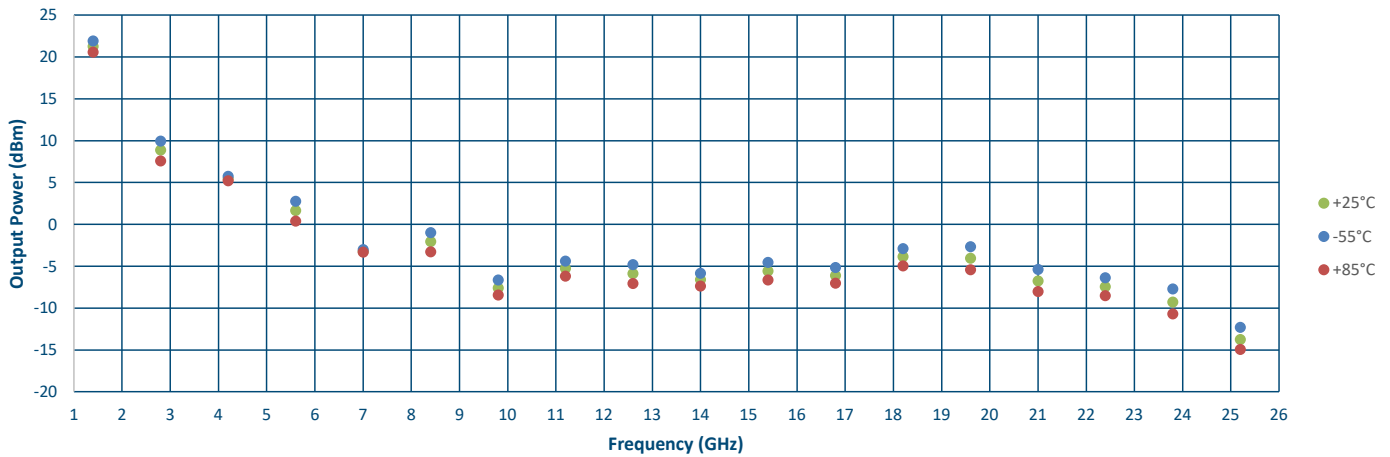
1.2 GHz Comb Generator Output, 0 dBm Input



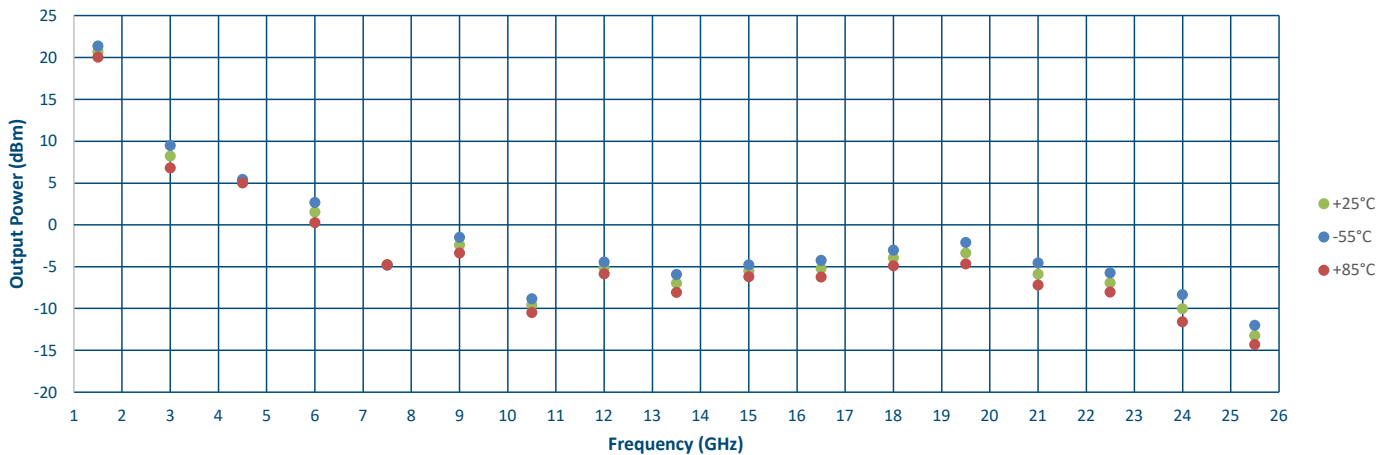
1.3 GHz Comb Generator Output, 0 dBm Input



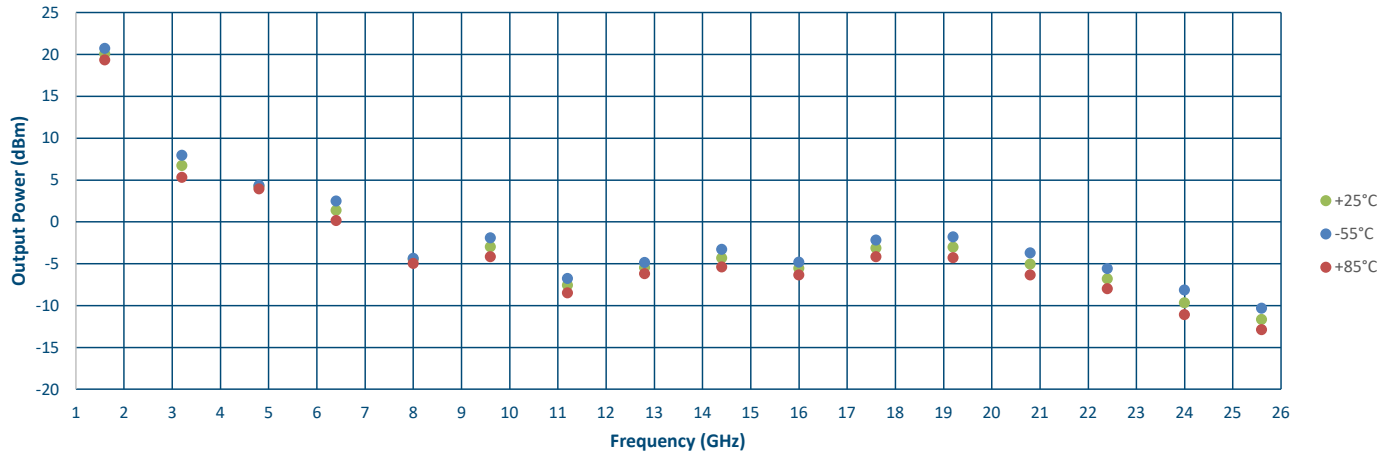
1.4 GHz Comb Generator Output, 0 dBm Input



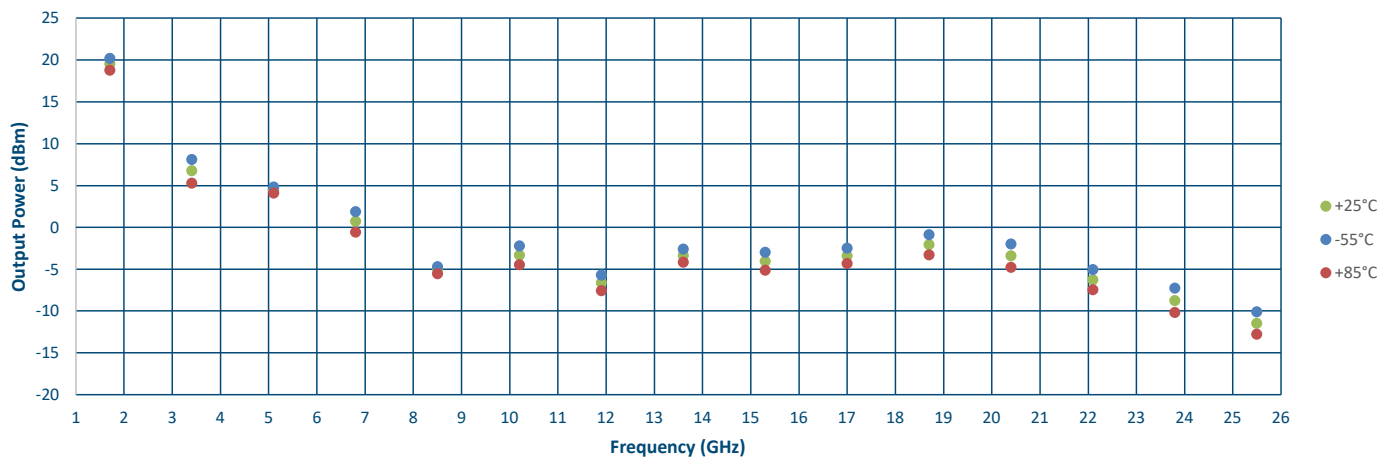
1.5 GHz Comb Generator Output, 0 dBm Input



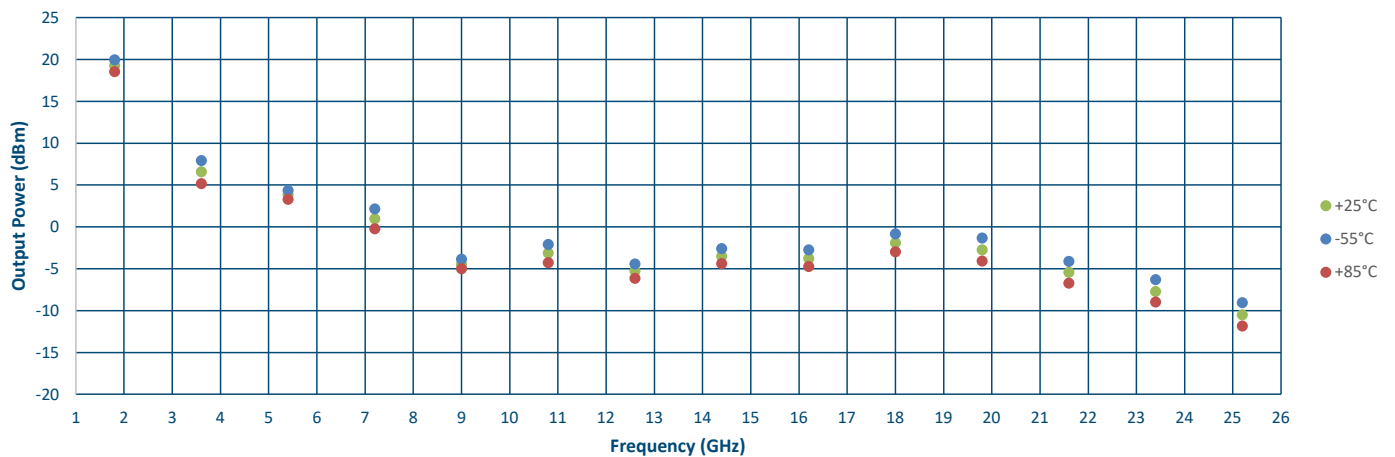
1.6 GHz Comb Generator Output, 0 dBm Input



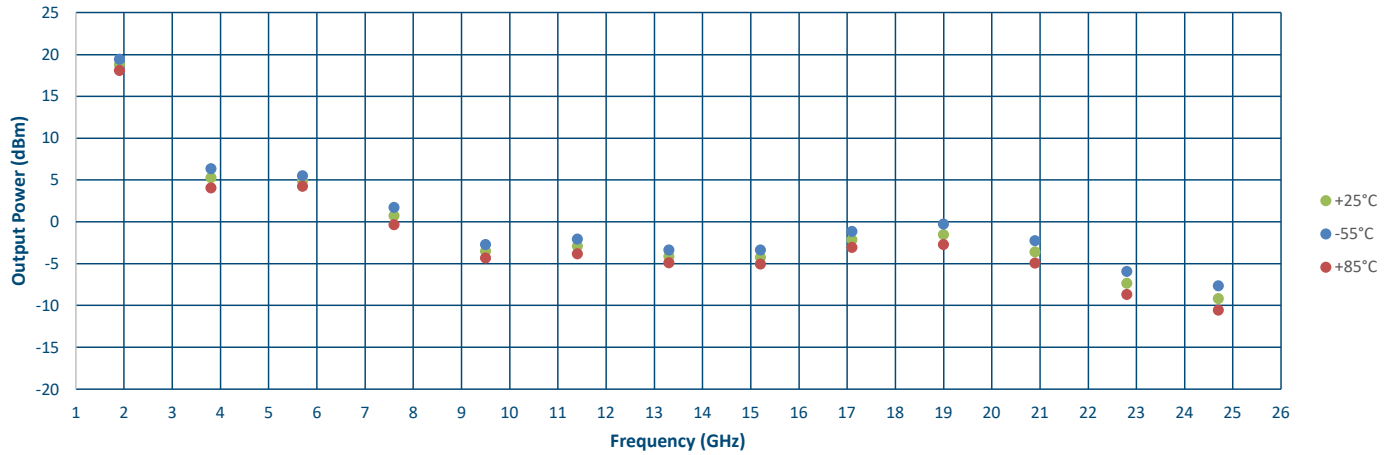
1.7 GHz Comb Generator Output, 0 dBm Input



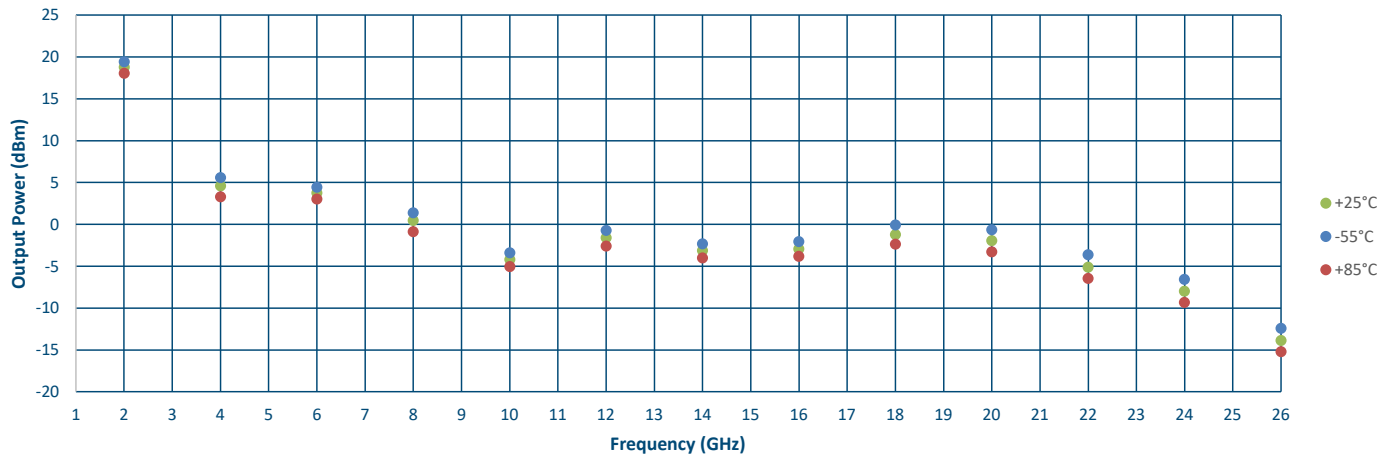
1.8 GHz Comb Generator Output, 0 dBm Input



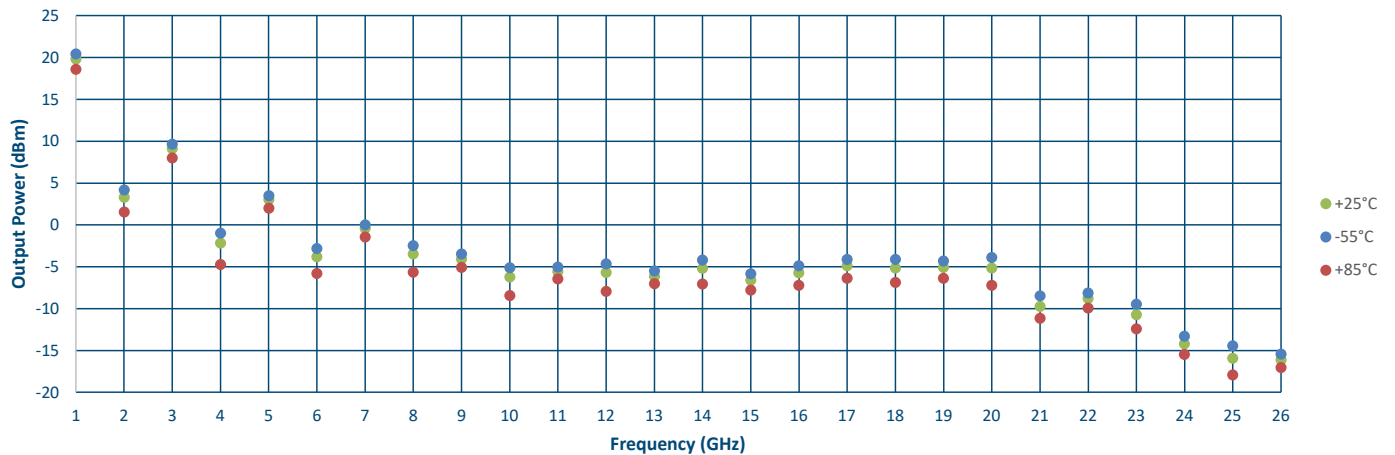
1.9 GHz Comb Generator Output, 0 dBm Input



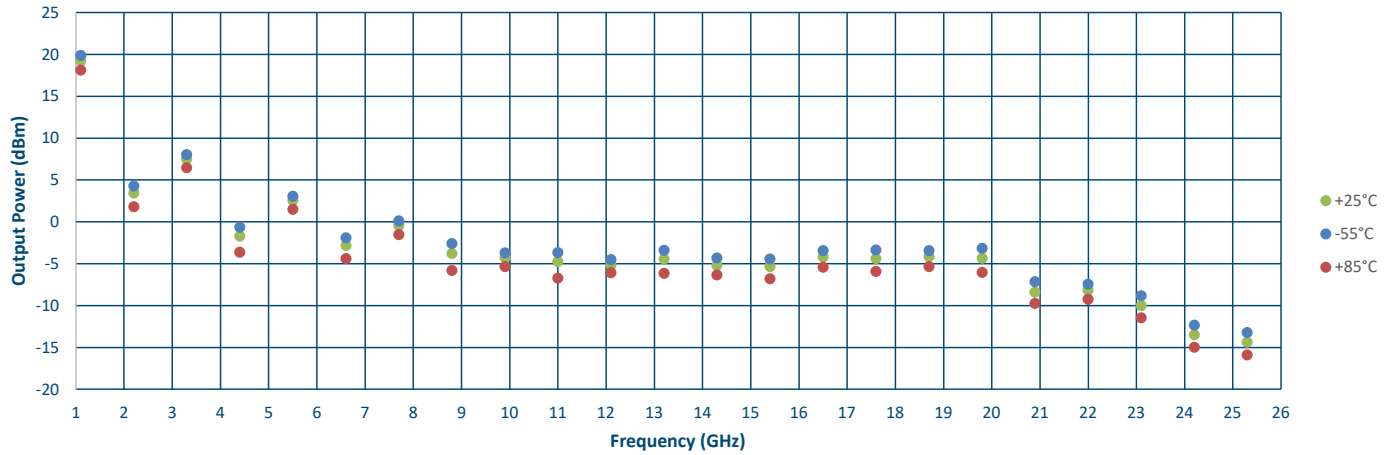
2 GHz Comb Generator Output, 0 dBm Input



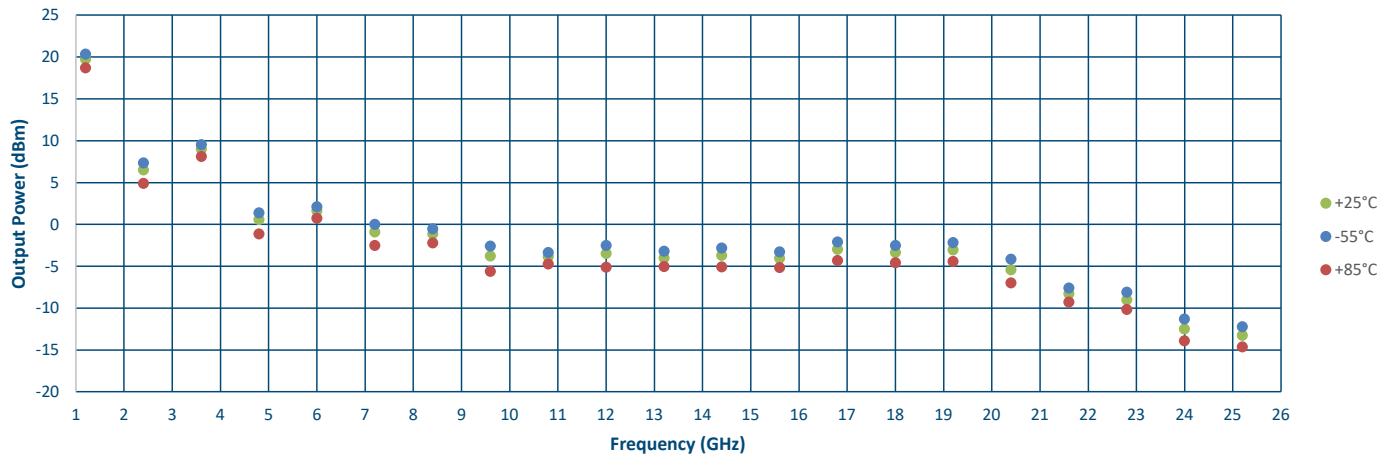
1 GHz Comb Generator Output, 5 dBm Input



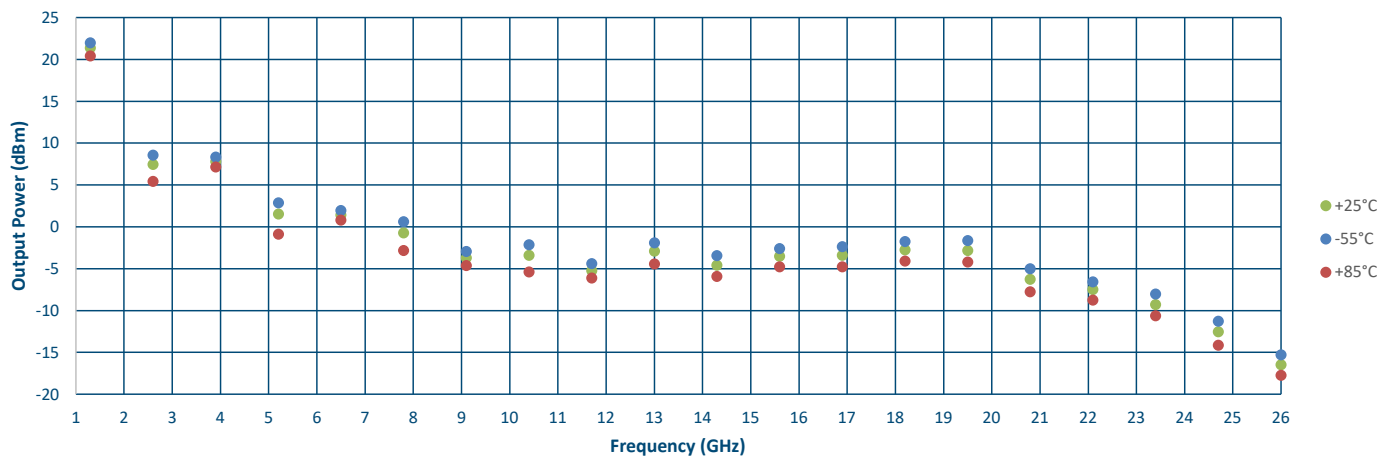
1.1 GHz Comb Generator Output, 5 dBm Input



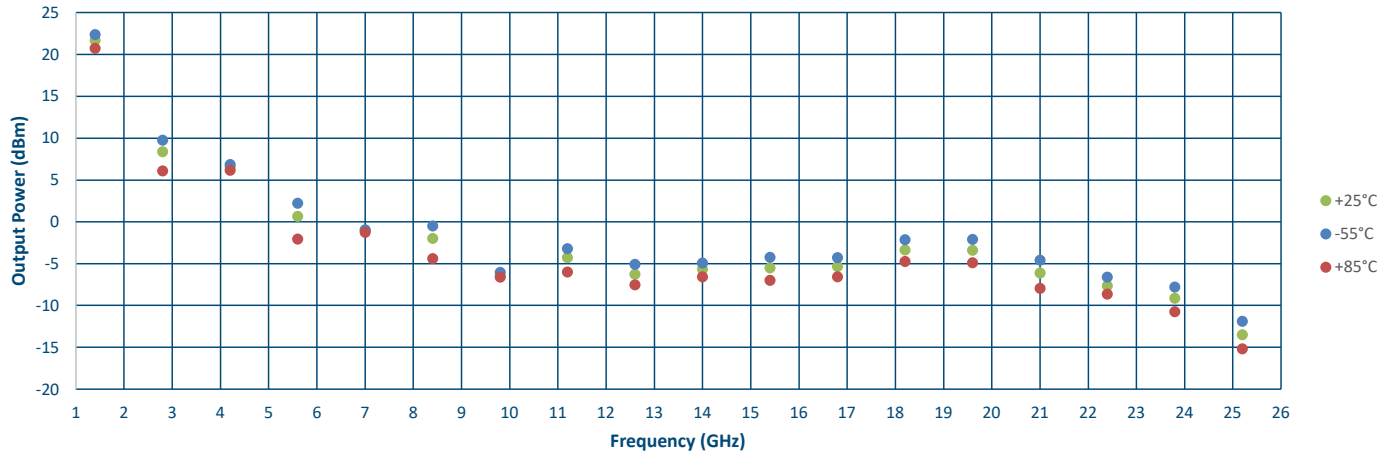
1.2 GHz Comb Generator Output, 5 dBm Input



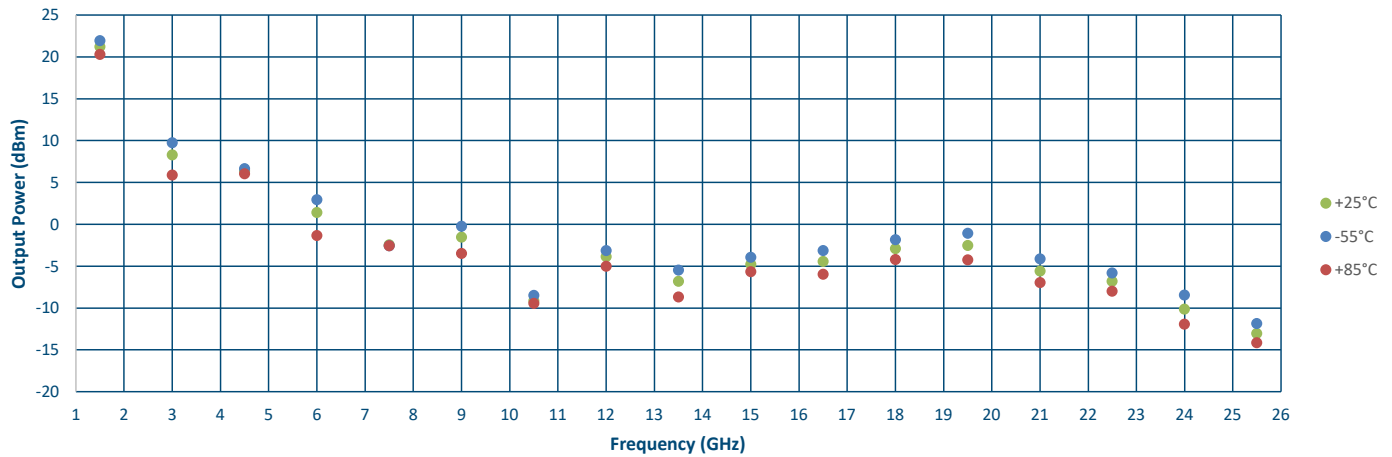
1.3 GHz Comb Generator Output, 5 dBm Input



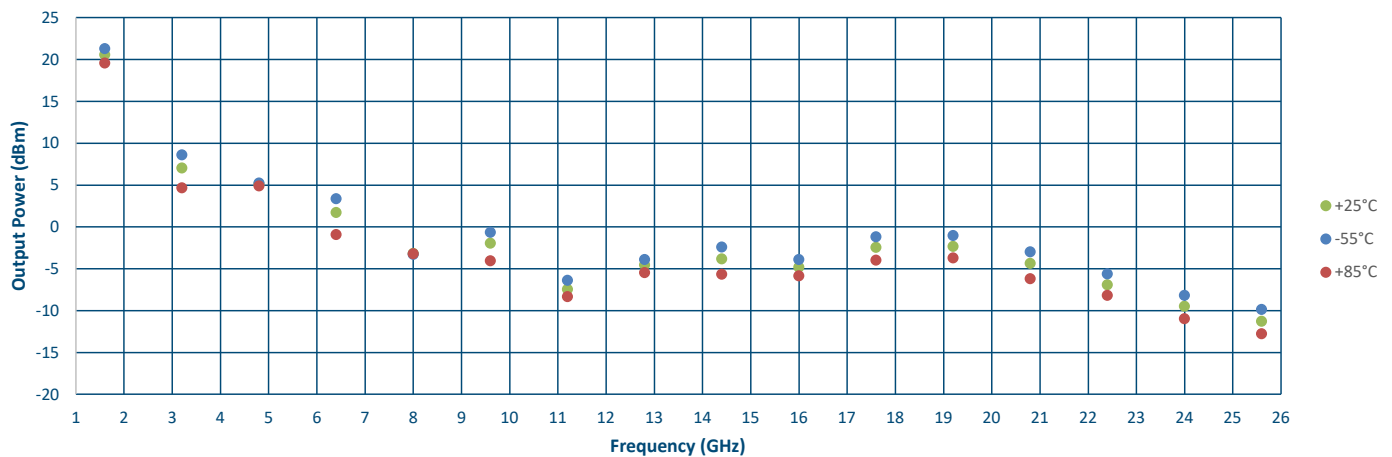
1.4 GHz Comb Generator Output, 5 dBm Input



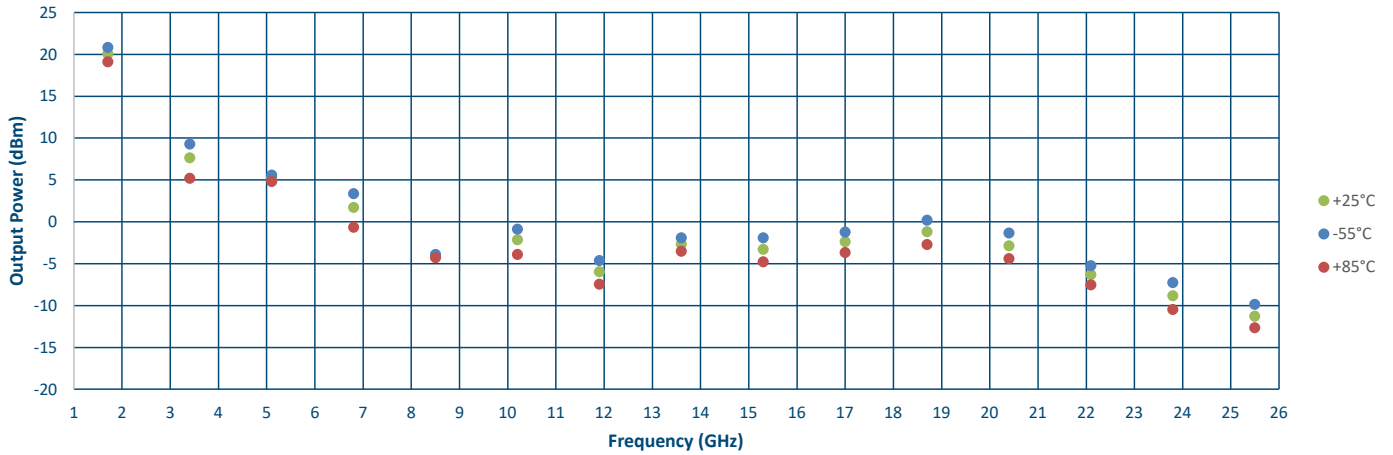
1.5 GHz Comb Generator Output, 5 dBm Input



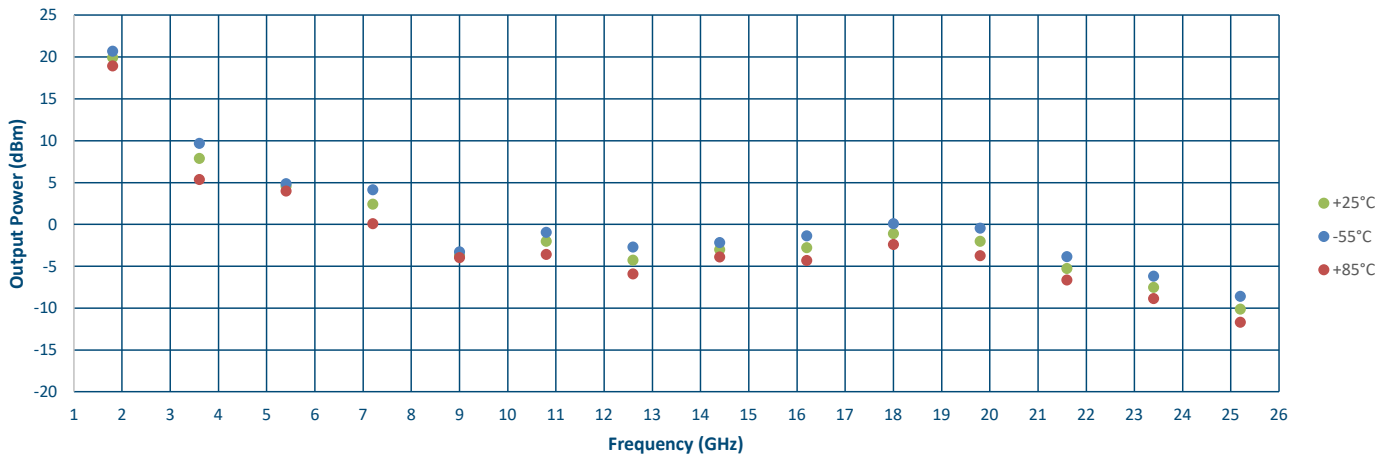
1.6 GHz Comb Generator Output, 5 dBm Input



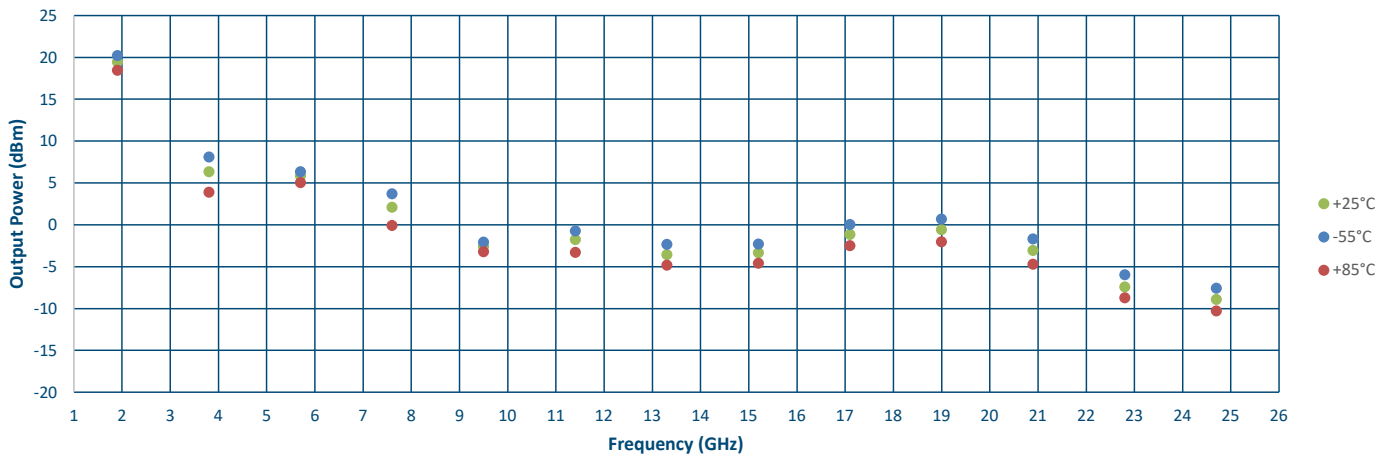
1.7 GHz Comb Generator Output, 5 dBm Input



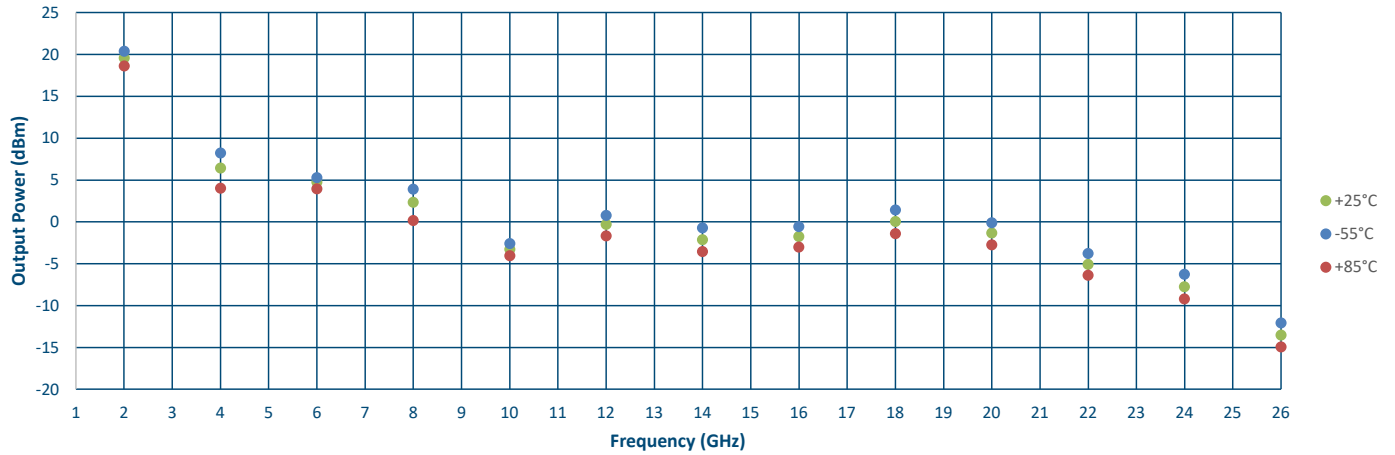
1.8 GHz Comb Generator Output, 5 dBm Input



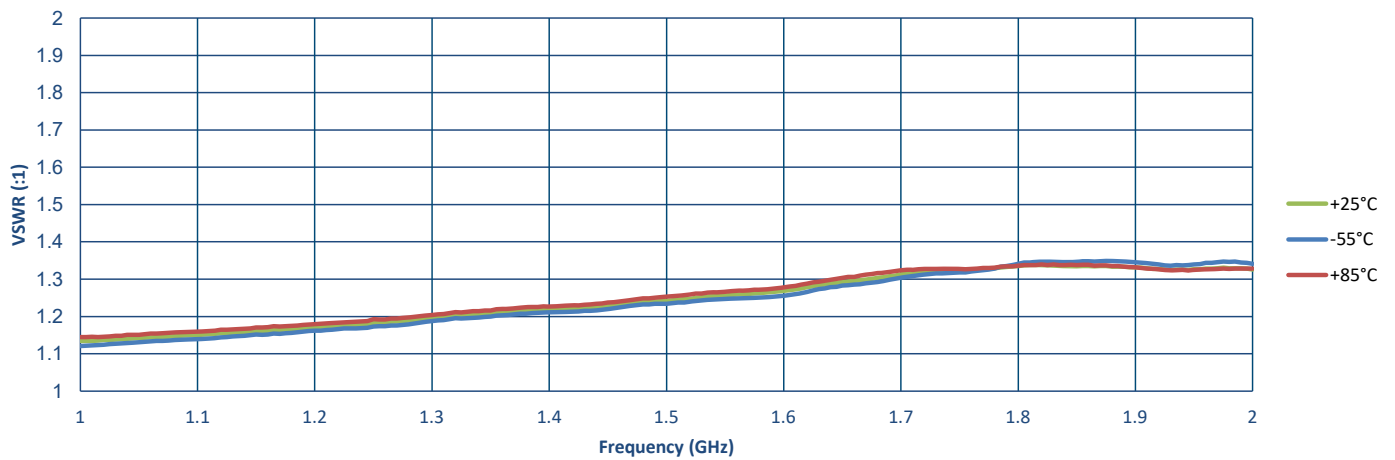
1.9 GHz Comb Generator Output, 5 dBm Input



2 GHz Comb Generator Output, 5 dBm Input



Input VSWR



1 GHz Output Spurious

