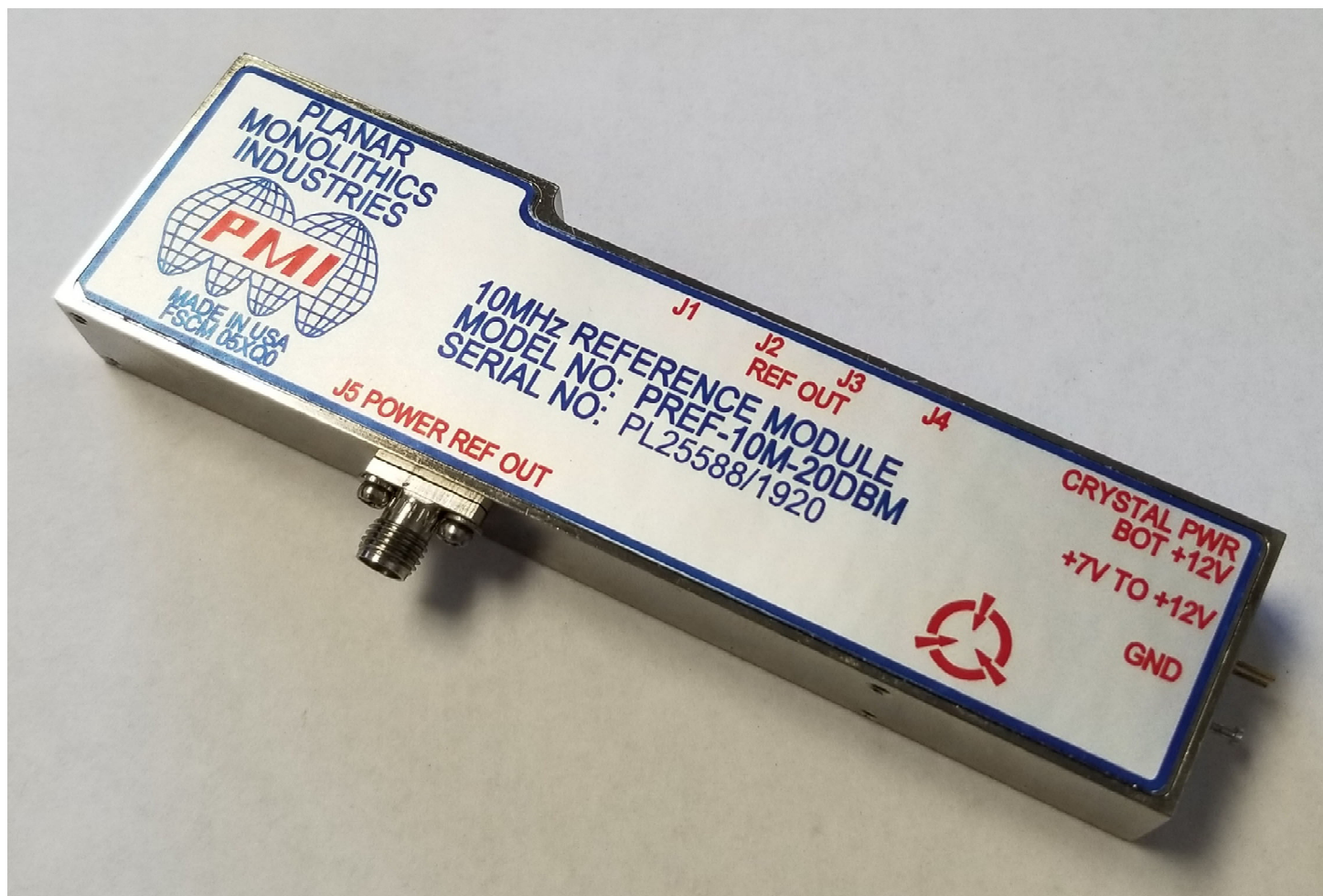




**TYPICAL CHARACTERISTICS
ON
PREF-10M-20DBM**

PLANAR MONOLITHICS INDUSTRIES MODEL NUMBER PREF-10M-20DBM IS A 10MHz REFERENCE SOURCE WITH 5 OUTPUTS. THE POWER REF OUT HAS A +20 dBm OUTPUT WHILE THE 4 REF OUTPUTS HAVE A NOMINAL +3 dBm OUTPUT. THIS UNIT IS DESIGNED TO PROVIDE A MULTI-OUTPUT REFERENCE SOURCE IN A SYSTEM REQUIRING MULTIPLE 10MHz REFERENCE SOURCES AT THE SAME TIME, ALL HAVING THE SAME STABILITY AND PHASE NOISE.



PREPARED 5/14/2019



**TYPICAL CHARACTERISTICS
ON
PREF-10M-20DBM**

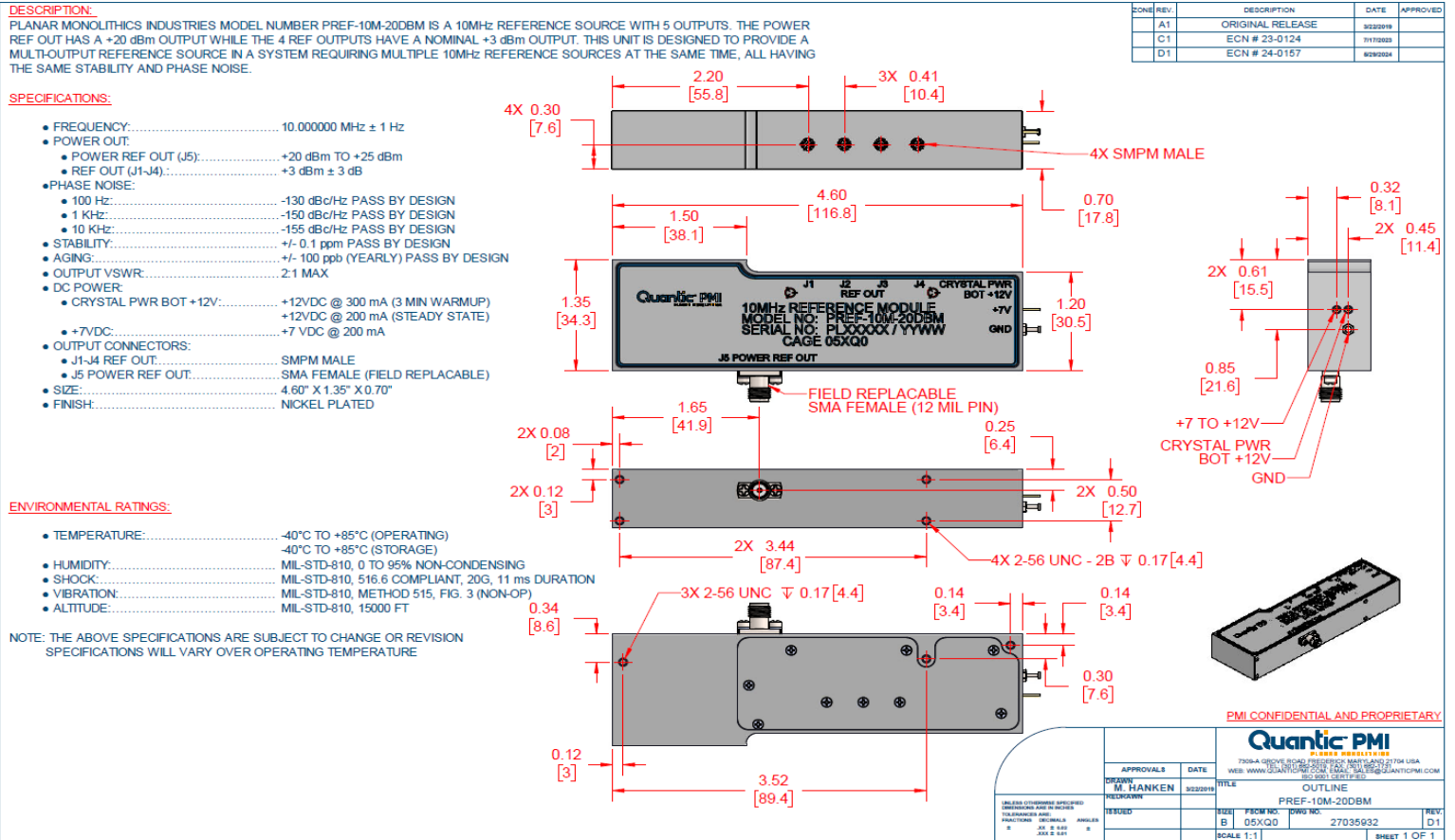
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TYPICAL CHARACTERISTICS ON PREF-10M-20DBM

OUTLINE DRAWING





TYPICAL CHARACTERISTICS
ON
PREF-10M-20DBM

SUMMARY DATA FOR +25°C

TEST ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
1	FREQUENCY :	10.0 MHz	10.0 MHz	
2	POWER REF OUT J5:	+20 dBm Typ	22.11 dBm See Plot	
3	REF OUT J1: REF OUT J2: REF OUT J3: REF OUT J4:	0 dBm TYP 0 dBm TYP 0 dBm TYP 0 dBm TYP	-1.39 dBm -1.42 dBm -1.38 dBm -1.38 dBm See Typical Plot	
4	DC POWER:	+12V @ 300 mA (3 MINUTE WARMUP) +12V @ 200 mA (STEADY STATE) +7V TO +12V @ 100 mA	251 mA 146 mA 20 mA	

SUMMARY DATA FOR -40°C

TEST ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
1	FREQUENCY :	10.0 MHz	10.0 MHz	
2	POWER REF OUT J5:	+20 dBm Typ	22.13 dBm See Plot	
3	REF OUT J1: REF OUT J2: REF OUT J3: REF OUT J4:	0 dBm TYP 0 dBm TYP 0 dBm TYP 0 dBm TYP	-1.28 dBm -1.27 dBm -1.28 dBm -1.32 dBm See Typical Plot	
4	DC POWER:	+12V @ 300 mA (3 MINUTE WARMUP) +12V @ 200 mA (STEADY STATE) +7V TO +12V @ 100 mA	251 mA 251 mA 80 mA	

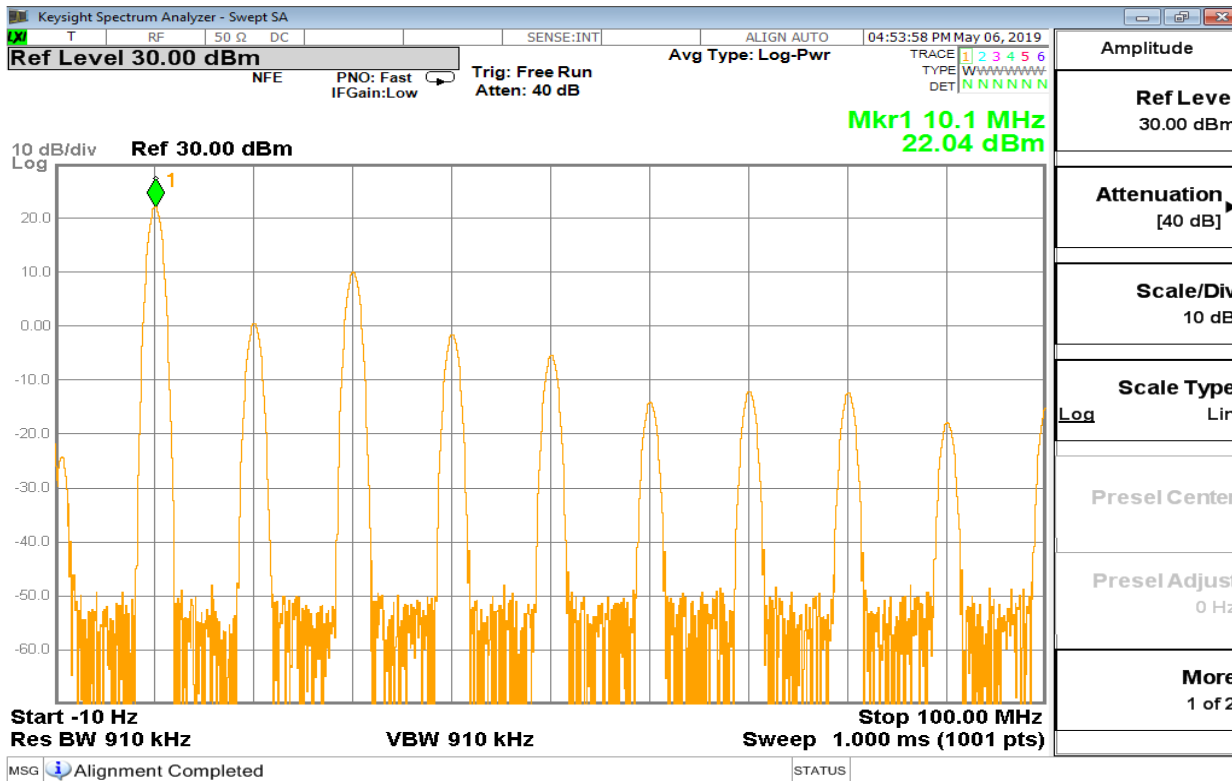
SUMMARY DATA FOR +85°C

TEST ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
1	FREQUENCY :	10.0 MHz	10.0 MHz	
2	POWER REF OUT J5:	+20 dBm Typ	21.53 dBm See Plot	
3	REF OUT J1: REF OUT J2: REF OUT J3: REF OUT J4:	0 dBm TYP 0 dBm TYP 0 dBm TYP 0 dBm TYP	-1.56 dBm -1.58 dBm -1.56 dBm -1.55 dBm See Typical Plot	
4	DC POWER:	+12V @ 300 mA (3 MINUTE WARMUP) +12V @ 200 mA (STEADY STATE) +7V TO +12V @ 100 mA	251 mA 39 mA 20 mA	

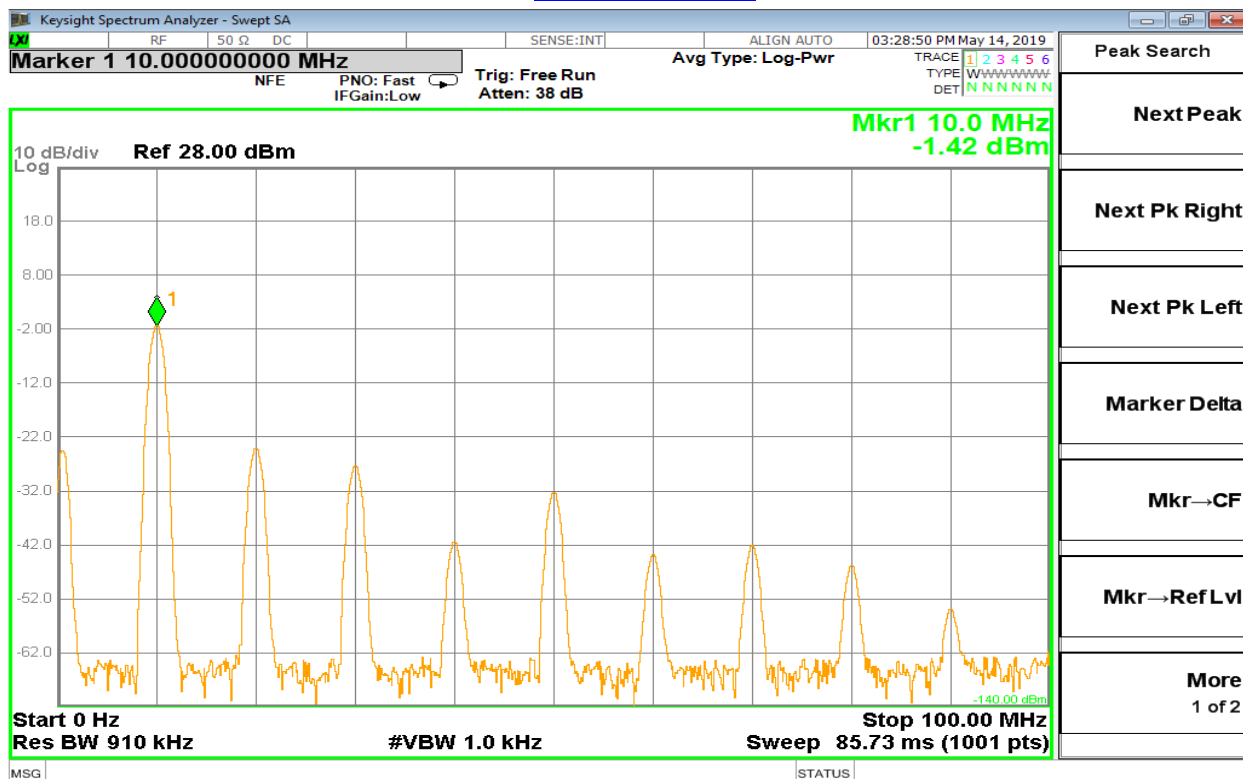


**TYPICAL CHARACTERISTICS
ON
PREF-10M-20DBM**

J5 OUT +25°C



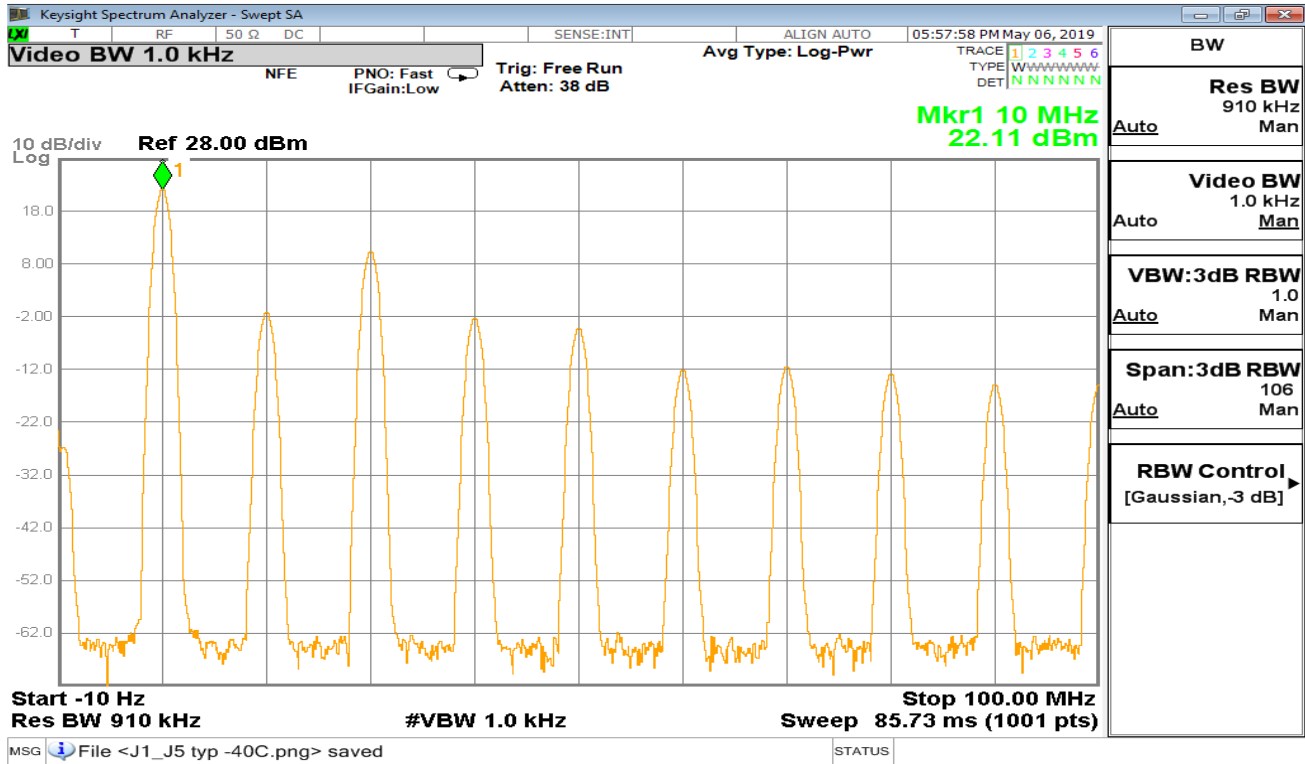
J1-J4 OUT +25°C



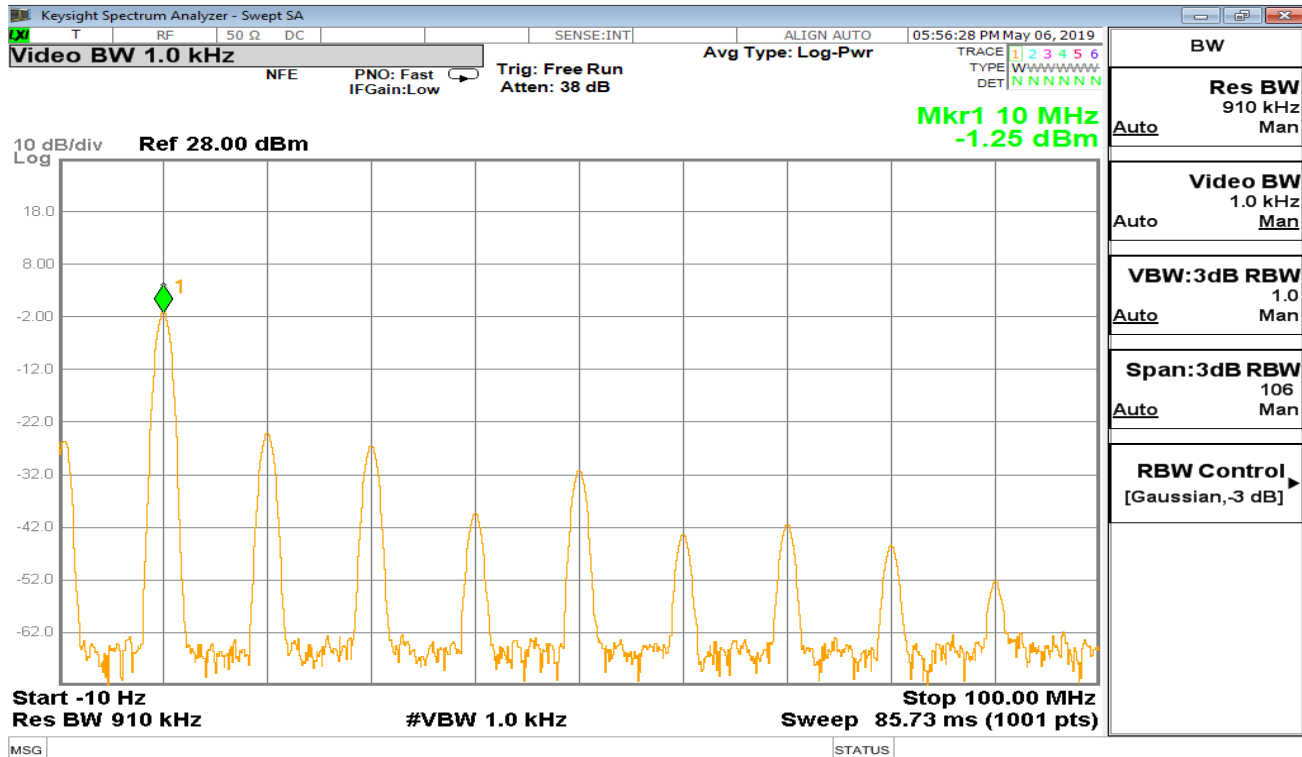


**TYPICAL CHARACTERISTICS
ON
PREF-10M-20DBM**

J5 OUT -40°C



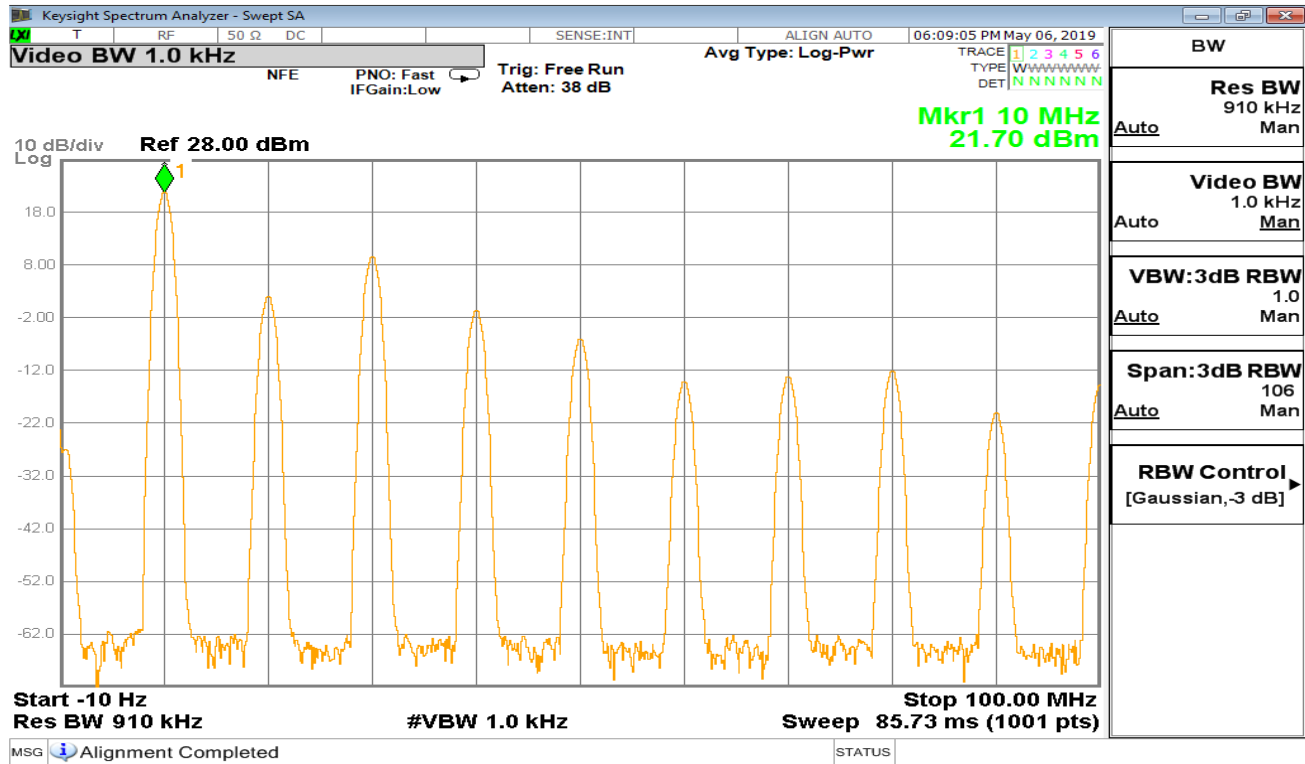
J1-J4 OUT -40°C





TYPICAL CHARACTERISTICS
ON
PREF-10M-20DBM

J5 OUT +85°C



J1-J4 OUT +85°C

