

ELECTRICAL SPECIFICATIONS -FOR MMIC POWER AMPLIFIER EVAL BOARD

S.No.5	Parameter	<p align="center">Type 5</p> <p>Eval Board for Type 1, (Ku-Band 20 Watts packaged GaN MMIC HPA)</p>
1.	Input Frequency (F_{in})	6-12 GHz
2.	Small signal Gain	>30dB
3.	Saturated Output power	+46dBm(typical) CW mode
4.	Output power at P3dB:	+45dBm(typical) CW mode
5.	Gain at P3dB	> 20dB
6.	Supply Voltage	20V
7.	Supply Current	6A (typical with RF drive)
8.	Operating temperature:	-40°C to +60°C
9.	Input/ Output	50 ohms matched
10.	Harmonic suppression:	better than -30dBc @12GHz
11.	Theta _{JC}	< 1 °C/W
12.	EVAL BOARD SHOULD BE SUPPLIED WITH THESE REQUIREMENTS.	<ul style="list-style-type: none"> a. Eval board should be a ready to test PCB with all components including MMIC amplifier mounted. b. Eval board should also have already mounted RF in and out connectors and provision to connect DC supply to the MMIC. c. Eval board must accompany with test results and test procedure. d. Manufacturer should provide layout details and assembly drawing of the eval board. e. Manufacturer should also provide PCB substrate material details and bill of material of this eval board. f. Availability of measured S-parameters of the MMIC amplifier.

Jefor

S.No.6	Parameter	<p style="text-align: center;">Type 6</p> <p style="text-align: center;">EVAL Board For Type 2,(Ku-Band packaged GaN MMIC driver amplifier</p>
1.	Input Frequency (F_{in})	6-12 GHz
2.	Small signal Gain	23dB typical mid-band gain
3.	Saturated Output power	+34dBm(typical) CW mode
4.	Output power at P3dB:	>+30dBm CW mode
5.	Gain at P3dB	> 18dB @ 12GHz
6.	Supply Voltage	22V
7.	Supply Current	650mA (typical with RF drive)
8.	Operating temperature:	-40°C to +60°C
9.	Harmonic suppression	better than -30dBc
10.	ThetaJC	< 12 °C/W
11.	EVAL BOARD SHOULD BE SUPPLIED WITH THESE REQUIREMENTS.	<ul style="list-style-type: none"> a. Eval board should be a ready to test PCB with all components including MMIC amplifier mounted. b. Eval board should also have already mounted RF in and out connectors and provision to connect DC supply to the MMIC. c. Eval board must accompany with test results and test procedure. d. Manufacturer should provide layout details and assembly drawing of the eval board. e. Manufacturer should also provide PCB substrate material details and bill of material of this eval board. f. Availability of measured S-parameters of the MMIC amplifier.

ICP