

Preliminary
Wideband Amp Pallet
RWP2060050-48



Product Features

- Frequency from 2000 ~ 6000MHz
- Class AB GaN design
- Instantaneous wide bandwidth
- 50 Ohm Input/Output impedance
- Small size and Light weight
- High reliability and Ruggedness



Description

The RWP2060050-48 is designed for general purpose. Operating frequency range is from 2000~6000MHz. Gallium Nitride on SiC Technology is used and attached on a copper sub carrier. Improved thermal handling by patented technology.

Electrical Specifications @ $V_{DC}=28V$, $T_C=50^{\circ}C$, 50 Ω System

PARAMETER	UNIT	MIN	TYP	MAX	SYMBOL
Operating Frequency	MHz	2000	-	6000	F _O
Operating Bandwidth	MHz	-	4000	-	BW
Peak Output Power @CW Signal	W	50	65	-	P _{SAT}
Input Power	dBm	-	0	-	P _{IN}
Maximum Input Power @Without Damage	dBm	-	-	7	P _{IN, MAX}
Power Gain @Input Power 0dBm	dB	-	48	-	G _P
Gain Flatness @Input Power 0dBm	dB	-	-	±1.5	ΔG _P
Efficiency	%	-	25	-	E _{FF}
Harmonics 1 to N @Output Power 50W	dBc	10	-	-	H _N
Spurious Level	dBc	60	-	-	Spur
Input VSWR	dB	-	-	2:1	VSWR
Operating Voltage	V	-	28	-	V _{DC}
Current Consumption @Output Power 65W	A	-	9.5	-	I _{DC}

Environmental Specifications

PARAMETER	UNIT	RATING	SYMBOL
Operating Case Temperature	°C	-20 ~ 85	T _C
Storage Temperature	°C	-40 ~ 105	T _{STG}
Relative Humidity(Non-condensing)	RH	95	%

Preliminary
Wideband Amp Pallet
RWP2060050-48



Operating Voltages

PARAMETER	UNIT	NOMINAL VOLTAGE	VOLTAGE ACCURACY	SYMBOL
Operating Voltage	V	28	± 2%	V _{DC}
HPA Enable Voltage	V	TTL Low(0V) : PA OFF, TTL High(5V) : PA ON		
Current Monitor Voltage	V	Output Voltage 1V@10A(0.1V/1A)		
Temp Monitor Voltage	V	Output Voltage 0.75V@25°C (1°C/0.01V)		

Mechanical Specifications

PARAMETER	UNIT	TYP
Mass	kg	0.75
Dimension	mm	175 x 90 x 23 (Without Connectors)
RF Connector	-	SMA Female : RF Input
		N Female : RF Output
DC Connector	-	D-Sub 7-Pin(7W2), Male : Supply
Cooling		External Heat-sink Required

Preliminary

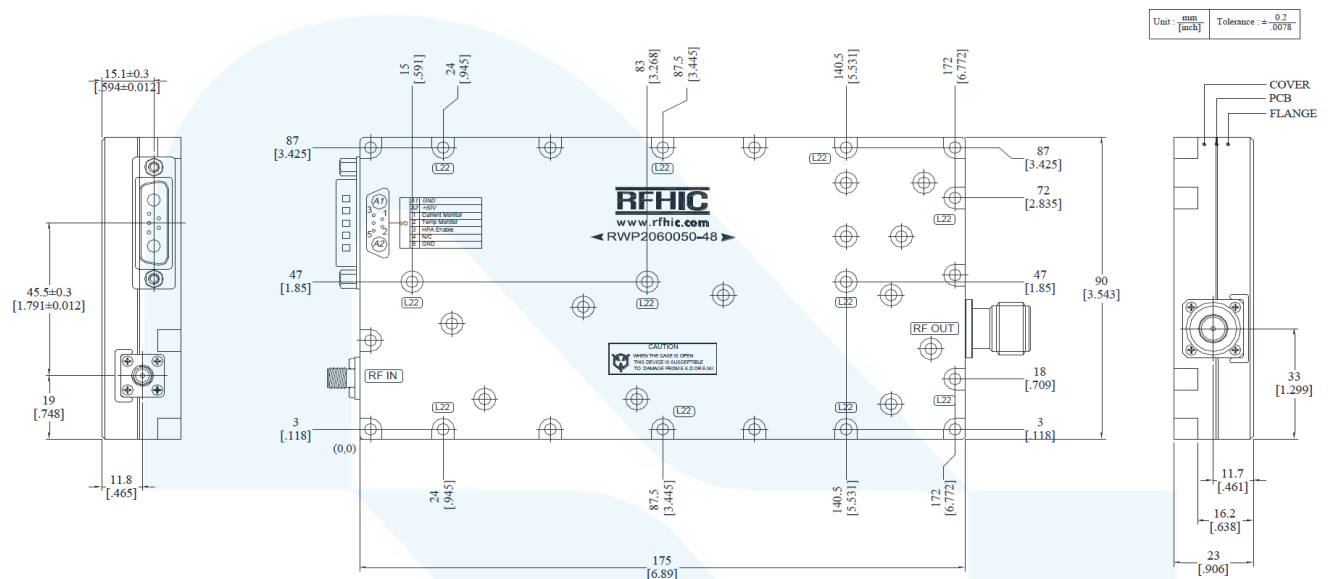
Wideband Amp Pallet

RWP2060050-48



Outline Drawing

* Unit: mm[inch] | Tolerance: ± 0.2 [.0078]



Pin Description

Pin No	Description	Pin No	Description
A1	GND	1	Current Monitor
A2	V _{DS} (+28V)	2	Temp Monitor
		3	HPA Enable
		4	N/C
		5	GND

Preliminary
Wideband Amp Pallet
RWP2060050-48



Revision History

Part Number	Release Date	Version	Modification	Data Sheet Status
RWP2060050-48	2020.01.22	0.1	-	Preliminary
RWP2060050-48	2026.01.09	0.2	Specification Updated	Preliminary



RFHIC Corporation reserves the right to make changes to any products herein or to discontinue any product at any time without notice. While product specifications have been thoroughly examined for reliability, RFHIC Corporation strongly recommends buyers to verify that the information they are using is accurate before ordering. RFHIC Corporation does not assume any liability for the suitability of its products for any particular purpose, and disclaims any and all liability, including without limitation consequential or incidental damages. RFHIC products are not intended for use in life support equipment or application where malfunction of the product can be expected to result in personal injury or death. Buyer uses or sells such products for any such unintended or unauthorized application, buyer shall indemnify, protect and hold RFHIC Corporation and its directors, officers, stockholders, employees, representatives and distributors harmless against any and all claims arising out of such unauthorized use.

Sales, inquiries and support should be directed to the local authorized geographic distributor for RFHIC Corporation. For customers in the US, please contact the US Sales Team at 919-677-8780. For all other inquiries, please contact the International Sales Team at 82-31-8069-3000.