

Product Features

- Frequency from 5725 ~ 5850MHz
- Class AB GaN design
- 50 Ohm Input/Output impedance
- Small size and Light weight
- High reliability and Ruggedness

Applications

- Radar system
- Drone system
- Jamming system



Description

The RRP5758065-40 is designed for Jamming system application frequencies from 5725~5850MHz. This Pallet uses GaN HEMT technology which performs high breakdown voltage, and high efficiency.

Electrical Specifications @ $V_{DC}=32V$, $T_C=45^{\circ}C$, 50 Ω System

PARAMETER	UNIT	MIN	TYP	MAX	SYMBOL
Operating Frequency	MHz	5725	-	5850	f_o
Operating Bandwidth	MHz	-	125	-	BW
Output CW Power	W	65	80	-	P_o
Input CW Power	dBm	-	8	-	P_i
Power Gain	dB	-	41	-	G_p
Gain Flatness	dB	-	-	± 0.5	ΔG_p
Efficiency	%	35	40	-	E_{FF}
Harmonics 1 to N	dBc	25	-	-	H_N
Spurious Level	dBc	60	-	-	Spur
Input VSWR	dB	-	-	2:1	VSWR
Output VSWR	dB	-	-	2:1	VSWR
Operating Voltage	V	-	32	-	V_{DC}
Current Consumption	A	-	6	-	I_{DC}
Current Monitor	V	-	0.6	-	

* Custom design available

Environmental Specifications

PARAMETER	UNIT	RATING	SYMBOL
Operating Case Temperature	°C	-20 ~ 75	T _C
Storage Temperature	°C	-40 ~ 105	T _{STG}
Relative Humidity(Non-condensing)	RH	95	%

Operating Voltages

PARAMETER	UNIT	NOMINAL VOLTAGE	VOLTAGE ACCURACY	SYMBOL
Operating Voltage (Main)	V	32	± 2%	V _{DC}
Operating Voltage (Sub)	V	5	± 2%	V _{Sub}
HPA Enable Voltage	V	Low(0V) : PA OFF, High(5V) : PA ON		
Current Monitor Voltage	V	Output Voltage 1V@10A(0.1V/1A)		-
Temperature Monitor Voltage	V	Output Voltage 0.75V@25°C (1°C/0.01V)		-

Mechanical Specifications

PARAMETER	UNIT	TYP
Weight	kg	0.4 (TBD)
Dimension (L x W x H)	mm	135 x 45 x 23 (excludes connectors)
RF Connector	-	SMA Female : RF Input
		N-type Female : RF Output
DC Connector	-	T2M-110-01-L-D-RA-WT, Male : Supply
Cooling		External Heat-sink Required (not supplied)

Revision History

Part Number	Release Date	Version	Modification	Data Sheet Status
RRP5758065-40	July, 2024	0.1	-	Preliminary
RRP5758065-40	September, 2025	0.2	-	Preliminary



Certification

This product is manufactured by a company that is certified for the AS9100D quality management system.

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. All 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 through our website at <https://www.rfhicusa.com/>. For all other inquiries, please contact our international sales team through our website portal at <https://rfhic.com/contact/>.