

Product Features

- Doherty amplifier design
- GaN on SiC HEMT
- Small and light weight
- 50 Ohm Input/Output impedance matched
- Highly reliable and rugged design
- High efficiency
- 8W typical P_{AVG}

Application

- WiMAX DPD amplifier
- General purpose RF amplifier

Description

The RTP26010-10 is designed for RF system application frequencies from 2496MHz to 2690MHz. This Pallet Amplifier uses GaN on SiC HEMT technology which performs high breakdown voltage, high linearity, high efficiency. The RTP26010-10 is DPD application amplifier.

Electrical Specifications @ VDD=+30VDC, T=25°C, 50Ω

PARAMETER	Symbol	Min	Typ	Max	Unit
Frequency Range	BW	2496	-	2690	MHz
Output Power	P _{AVG}	-	8	10	Watt
Output Power @ Psat G.C.P	Psat	-	50	-	Watt
Small Signal Gain	SSG	20	25	-	dB
Small Signal Gain Flatness	ΔG	-	± 1.0	± 2	dB
Gain Variation	ΔGt		± 3.0		dB
ACLR @ WiMAX 10MHz 2FA	ACLR		-25dBr		dBr
Input VSWR	S11	-	1.5:1	2.0:1	-
Operating Voltage	VDC	28	30	-	Volt
Efficiency @ Pout 10Watt	E		30		%

※ Test Signal Condition : WCDMA 4FA

Environmental Characteristics

PARAMETER	Symbol	Min	Typ	Max	Unit
Operating Temperature	T _c	-20	-	+50	°C
Storage Temperature	T _s	-30	-	+60	°C

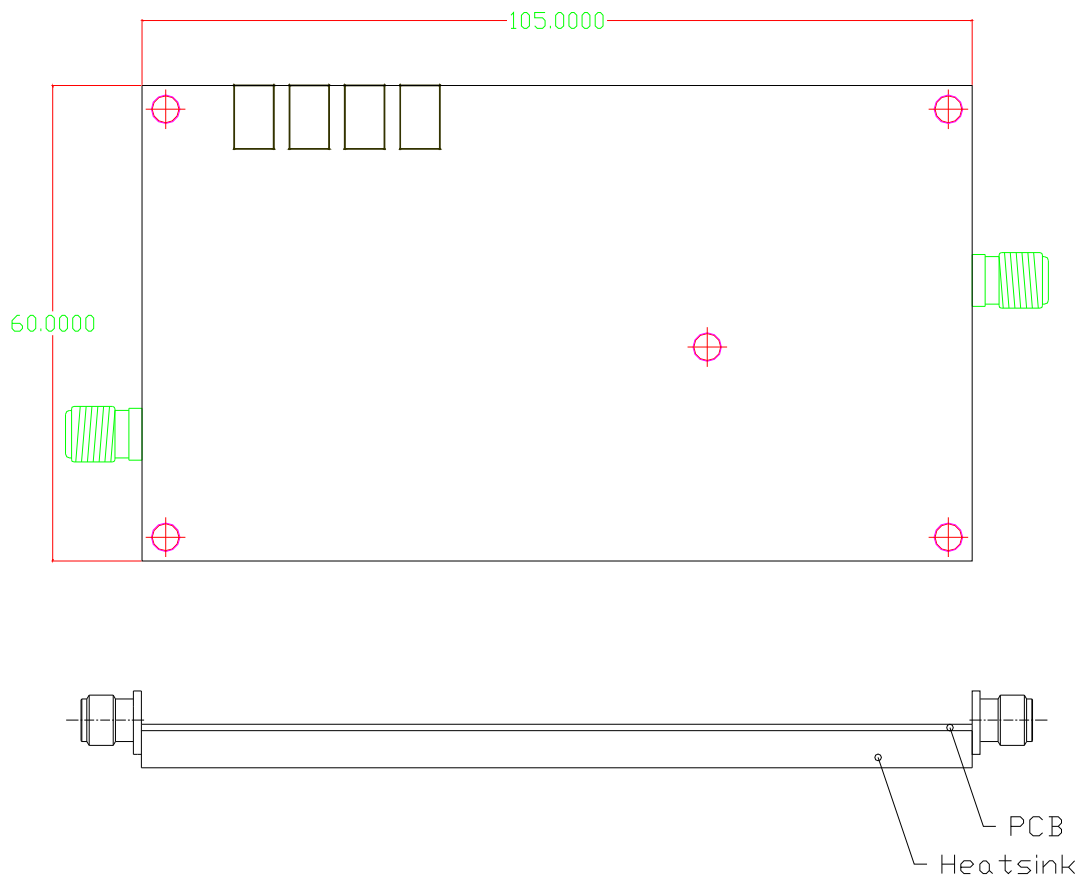
Mechanical Specifications

PARAMETER	Value	Units	Limits
Dimensions (L x W x H)	105 x 60 x 18.5	mm	Max
Cooling	External Heat sink + airflow		

RF Interface Connectors

Pin #	Description	Specifications
1	RF IN	RF Input signal from TRx B'd
2	RF OUT	RF Output signal to TDD switch

Outline Drawing



RFHIC Corporation (RFHIC) reserves the right to make changes to any products herein or to discontinue any product at any time without notice. RFHIC do 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. The product specifications herein expressed have been carefully checked and are assumed to be reliable. However, RFHIC disclaims liability for inaccuracies and strongly recommends buyers to verify that the information they are using is current before placing purchase orders. 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 and its directors, officers, stockholders, employees, representatives and distributors harmless against any and all claims arising out of such use. RFHIC's liability under or arising out of damages, claims of whatsoever kind and nature which RFHIC products could cause shall be limited in amount to the net purchase price of the products sold to buyer by RFHIC.