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	Ts	-30	-	+60	°C

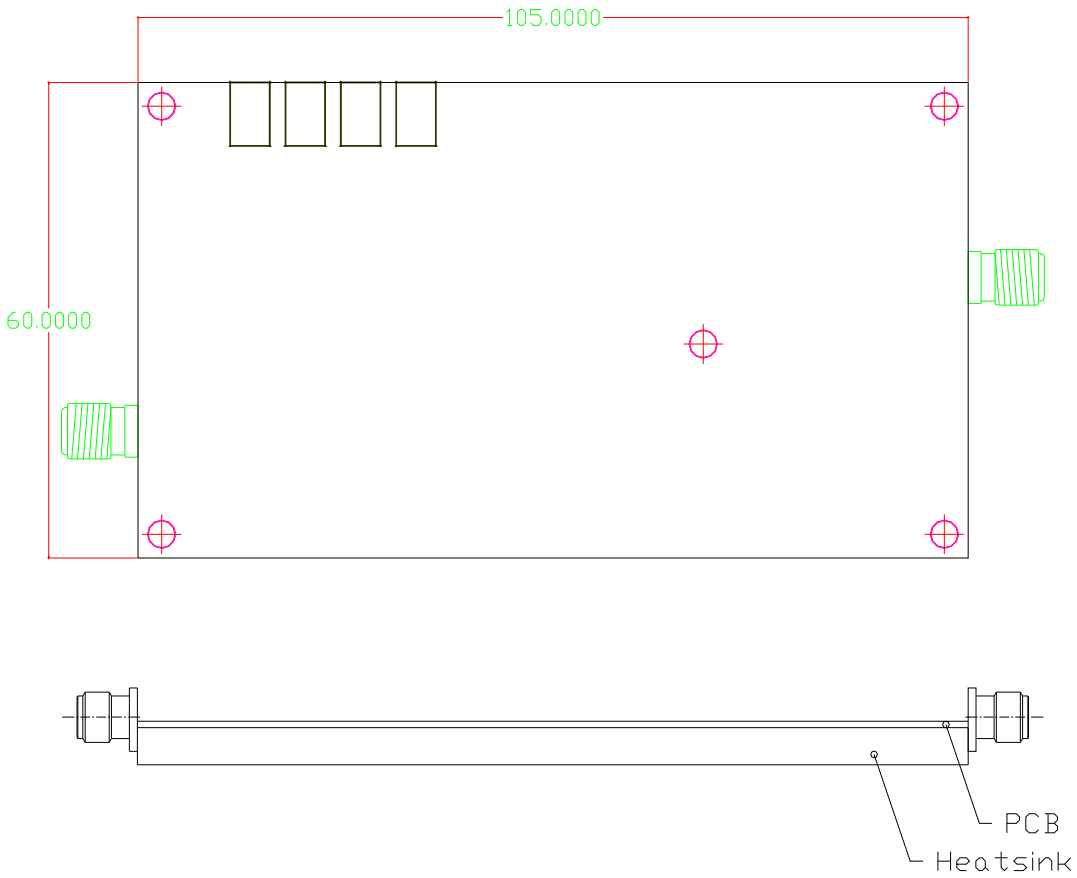
Mechanical Specifications

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



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