

Preliminary

5 W GaAs PA PCB Module for 5.8 GHz Application

FEATURES

- 32 dB Typical Power Gain at 5.8 GHz
- 36 dBm Power at 5.8 GHz
- Suitable for 5.8 GHz Applications
- 100 % DC and RF Tested

DESCRIPTION

The TMP057-059-32-36 is a fully matched power amplifier PCB module with excellent performances and high circuit integration for 5.8 GHz applications. It offers high power performance, excellent linearity and low cost. The module is a two-stage amplifier module using Transcom's own proprietary PHEMT devices that provide outstanding linearity and gain performance. The RF input and output of this module are fully matched for 50 ohm operation.

ELECTRICAL SPECIFICATIONS (Case Temp. = +25° C)

Symbol	CONDITIONS	MIN	TYP	MAX	UNIT
FREQ	Frequency Range	5.7	5.8	5.9	GHz
Pout	1dB Compression Output Power	35	36		dBm
GL	Linear Power Gain	30	32		dB
IP3	Intercept Point of the 3 rd -order Intermodulation *P _{SCL} = 20 dBm		46		dBm
Vds	Supply Voltage		10		Volt
Vg	Gate Voltage		-5		Volt
Idsq	DC Quiescent Current (RF OFF)		1.7		A
OT	Operation Temperature	-40		70	°C

Note :

* P_{SCL}: Output Power of Single Carrier Level.