

Preliminary

**10 W GaAs PA PCB Module for 5 GHz Application****FEATURES**

- 16 dB Typical Power Gain at 5 GHz
- 40 dBm Power at 5 GHz
- Suitable for 5GHz Applications
- 100 % DC and RF Tested

**DESCRIPTION**

The TMP049-051-16-40 is a fully matched power amplifier PCB module with excellent performances and high circuit integration for 5 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	4.9	5	5.1	GHz
Pout	1dB Compression Output Power, $f = 5$ GHz	39.5	40		dBm
G <sub>1</sub>	Linear Power Gain	15.5	16		dB
Vds	Supply Voltage		12		Volts
Idsq	DC Quiescent Current (RF OFF)		460		mA
OT	Operation Temperature	-40		70	°C

**Note :**