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TC3879 PRE1_20070518

PHOTO ENLARGEMENT

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TC3879

W.DZSC.COM



Preliminary

7 W Packaged Single-Bias PHEMT GaAs Power FETs

FEATURES

- 7W Typical Output Power
- 10.5dB Typical Linear Power Gain at 2.45 GHz
- High Linearity: IP3 = 48.5 dBm Typical
- High Power Added Efficiency: Nominal PAE of 35%
- Breakdown Voltage: $BV_{DGO} \ge 18V$
- 100 % DC Tested
- Suitable for High Reliability Application

DESCRIPTION

The TC3879 is a self-bias flange ceramic packaged device with PHEMT GaAs FETs, which is designed to provide the single power supply. The flange ceramic package provides excellent thermal conductivity for the GaAs FET. The device is suitable for oscillators and power amplifiers in a wide range of commercial application. All devices are 100% DC tested to assure consistent quality.

ELECTRICAL SPECIFICATIONS (@ 2.45 GHz)

Symbol	CONDITIONS	MIN	ТҮР	MAX	UNIT
P _{1dB}	Output Power at 1dB Gain Compression Point $V_{DS} = 10 V$		38.5		dBm
G _L	Linear Power Gain $V_{DS} = 10 V$		10.5		dB
IP3	Intercept Point of the 3^{rd} -order Intermodulation $V_{DS} = 10 \text{ V}, \text{ *P}_{SCL} = 27 \text{ dBm}$		48.5	1 8	dBm
PAE	Power Added Efficiency at 1dB Compression Power	1.00	35	51701	%
I _{DS}	Drain-Source Current at $V_{DS} = 10 \text{ V}$	and F	1750	750.0	mA
BV _{DGO}	Drain-Gate Breakdown Voltage at I _{DGO} = 7.5mA	18	22		Volts
R _{th}	Thermal Resistance	A second	1.8		°C/W

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





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FLANGE PACKAGE OUTLINE (Unit: mm)

