

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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TPR 700

700 Watts, 50 Volts, Pulsed Avionics 1030 - 1090 MHz

GENERAL DESCRIPTION

The TPR 700 is a high power COMMON BASE bipolar transistor. It is designed for pulsed systems in the frequency band 1030-1090 MHz. The device has gold thin-film metallization for proven highest MTTF. The transistor includes input returns for **fast rise time**. Low thermal resistance package reduces junction temperature, extends life.

55KT, Style 1 **Common Base**

CASE OUTLINE

ABSOLUTE MAXIMUM RATINGS

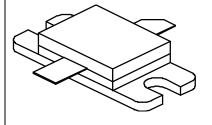
Maximum Power Dissipation @ 25°C² 2050 Watts

Maximum Voltage and Current

Collector to Base Voltage **BVces** 65 Volts BVebo Emitter to Base Voltage 3.5 Volts Collector Current 55 Amps

Maximum Temperatures $-65 \text{ to} + 200^{\circ}\text{C}$ Storage Temperature

Operating Junction Temperature + 200°C



ELECTRICAL CHARACTERISTICS @ 25 °C

SYMBOL	CHARACTERISTICS	TEST CONDITIONS	MIN	TYP	MAX	UNITS
Pout Pin Pg ηc t _r VSWR	Power Out Power Input Power Gain Collector Efficiency Rise Time Load Mismatch Tolerance	F = 1030 MHz Vcc = 50 Volts PW = 10 μsec DF = 1% F = 1030 MHz	700 6.7	35	150 70 30:1	Watts Watts dB % ns

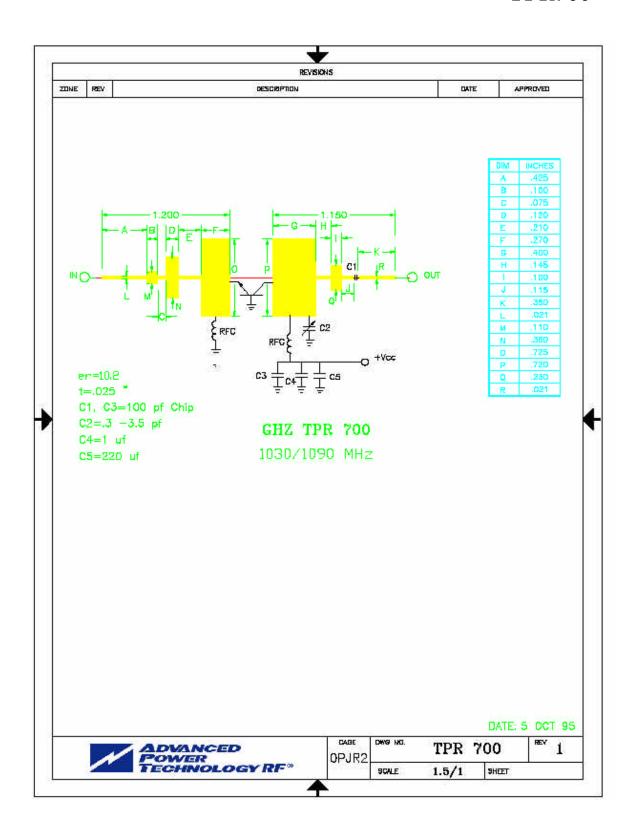
BVebo ³ BVces h _{FE} θjc ²	Emitter to Base Breakdown Collector to Emitter Breakdown DC - Current Gain Thermal Resistance	Ie = 50mA Ic = 100mA Ic = 1000mA, Vce = 5 V	3.5 65 10		0.08	Volts Volts °C/W
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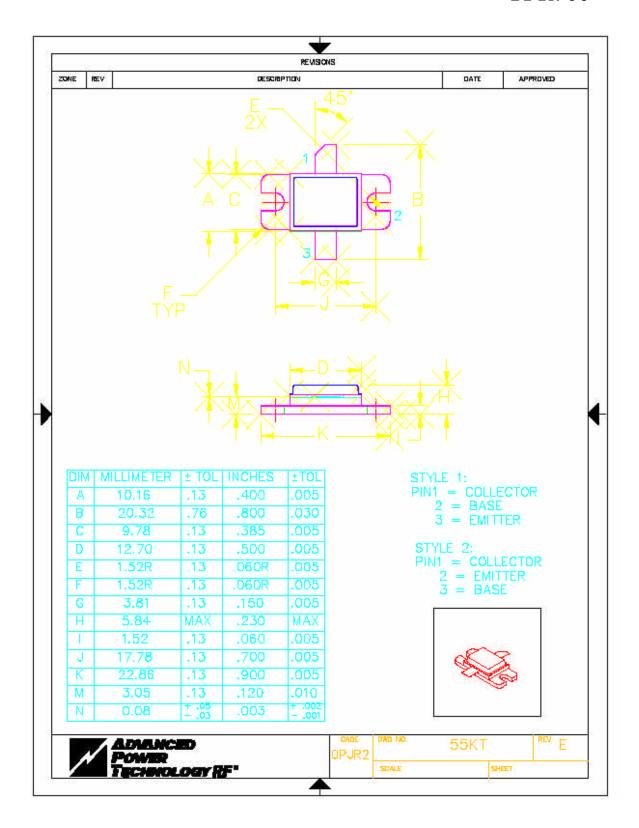
Note 1: At rated output power and pulse conditions

2: At rated pulse conditions

3: Cannot measure due to input return

Rev A. – Sept 2005





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