

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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0204-125

125 Watts, 28 Volts, Class AB Defcom 225 - 400 MHz

GENERAL DESCRIPTION

The 0204-125 is a double input matched COMMON EMITTER broadband transistor specifically intended for use in the 225-400 MHz frequency band. It may be operated in Class AB or C. Gold metallization and silicon diffused resistors ensure ruggedness and high reliability.

ABSOLUTE MAXIMUM RATINGS

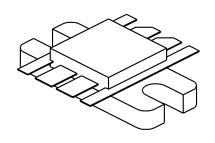
Maximum Power Dissipation @ 25°C 270 Watts

Maximum Voltage and Current

BVces Collector to Emiter Voltage 65 Volts
BVebo Emitter to Base Voltage 4.0 Volts
Ic Collector Current 16.0 A

Maximum Temperatures

Storage Temperature $-65 \text{ to } +150 ^{\circ}\text{C}$ Operating Junction Temperature $+200 ^{\circ}\text{C}$ CASE OUTLINE 55JT- Style 2



ELECTRICAL CHARACTERISTICS @ 25 °C

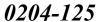
SYMBOL	CHARACTERISTICS	TEST CONDITIONS	MIN	TYP	MAX	UNITS
Pout Pin Pg Ŋc VSWR	Power Output Power Input Power Gain Efficiency Load Mismatch Tolerance	F = 400 MHz Vcc = 28 Volts	125 7.0	8.5 60	25 5:1	Watts Watts dB %

BVebo ² BVces ² BVceo ² Cob ² h _{FE} ²	Emitter to Base Breakdown Collector to Emitter Breakdown Collector to Emitter Breakdown Output Capacitance DC - Current Gain	Ie = 10 mA Ic = 100 mA Ie = 100 mA Vcb = 28 V, F = 1 MHz Vce = 5 V, Ic = 1 A	4.0 60 32 20	70	100	Volts Volts Volts pF
θјс	Thermal Resistance				0.65	°C/W

Note 2: Per side

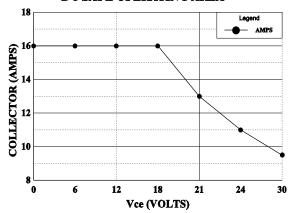
Issue August 1996

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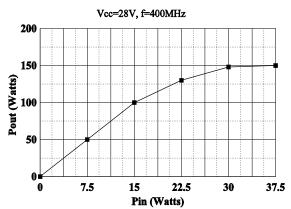




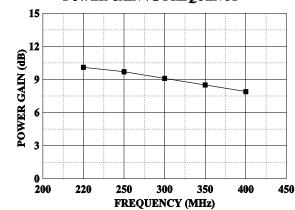
DC SAFE OPERATING AREA



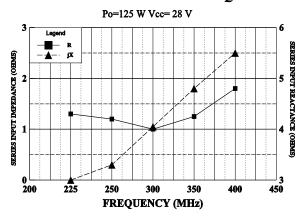
POWER OUTPUT vs POWER INPUT



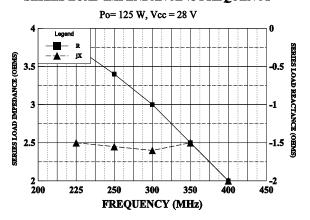
POWER GAIN VS FREQUENCY



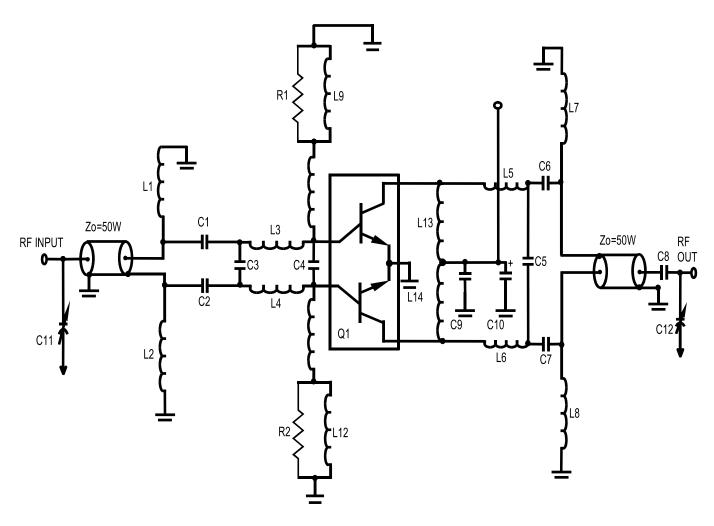
SERIES INPUT IMPENDANCE vs FREQUENCY



SERIES LOAD IMPENDANCE vs FREQUENCY







CAPACITORS

C1,C2=39pF ceramic chip capacitor
C3=33pF ceramic chip capacitor
C4=56pF ceramic chip capacitor
C5=18pF ceramic chip capacitor
C6,C7,C8=27pF ceramic chip capacitor
C9=0.1mF ceramic capacitor
C10=10mF electrolytic capacitor
C11,C12=.5-10pF Johanson

INDUCTORS L1,L2,L3,L4,L5,L6,L7,L8=printed on the circuit board L9,L12=4.7mH RF choke L10,L11,L13,L14=0.1mH RF choke

RESISTORS R1,R2=10 OHM, 1/4 W TRANSISTOR Q1=0204-125