

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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UTV010

1 Watt, 20 Volts, Class A UHF Television - Band IV & V

GENERAL DESCRIPTION

The UTV 010 is a COMMON EMITTER transistor capable of providing 1 Watt Peak, Class A, RF Output Power over the band 470 - 860 MHz. Gold Metalization and Diffused Ballasting are used to provide high reliability and supreme ruggedness.

ABSOLUTE MAXIMUM RATINGS

Maximum Power Dissipation @ 25°C 15 Watts

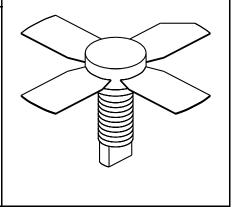
Maximum Voltage and Current

BVcesCollector to Emitter Voltage45 VoltsBVceoCollector to Emitter Voltage20 VoltsBVeboEmitter to Base Voltage3.5 VoltsIcCollector Current1.25 Amps

Maximum Temperatures

Storage Temperature $-65 \text{ to} + 150^{\circ}\text{C}$ Operating Junction Temperature $+200^{\circ}\text{C}$

CASE OUTLINE 55FT, STYLE 2



ELECTRICAL CHARACTERISTICS @ 25 °C

SYMBOL	CHARACTERISTICS	TEST CONDITIONS	MIN	TYP	MAX	UNITS
Pout Pin Pg IMD¹ VSWR₁	Power Out - Pk Sync Power Input Power Gain Intermodulation Distortion Load Mismatch Tolerance	F = 470 - 860 MHz Vcc = 20 Volts Ic = 440 mA Pref = 1.0 Watts F = 860 MHz		1.0 11.5 -60	0.09	Watts Watts dB dB

LVceo BVces BVebo h _{FE}	Collector to Emitter Breakdown Collector to Base Breakdown Emitter to Base Breakdown Current Gain	Ic = 20 mA Ic = 10 mA Ie = 1 mA Vce = 5 V, 200 mA	24 45 3.5 15			Volts Volts Volts
Cob	Output Capacitance	Vcb = 20 V, F = 1 MHz		7.0		pF
θјс	Thermal Resistance	$Tc = 25^{\circ}C$			12	°C/W

Note 1: F1=860 MHz, F2=863.5 MHz, F3=864.5 Mhz

European test method, Vision = -8dB, Sideband= -16dB, Sound = -7 dB

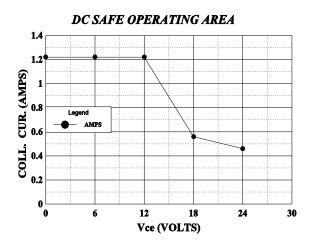
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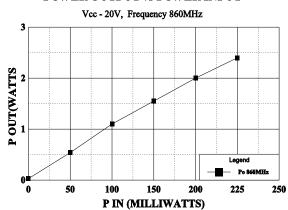
GHz Technology Inc. 3000 Oakmead Village Drive, Santa Clara, CA 95051-0808 Tel. 408 / 986-8031 Fax 408 / 986-8120

UTV010

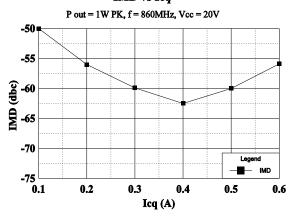




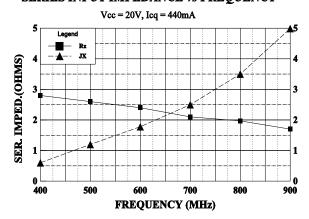
POWER OUTPUT vs POWER INPUT



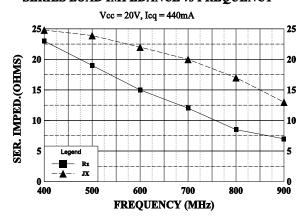
IMD vs Icq



SERIES INPUT IMPEDANCE vs FREQUENCY

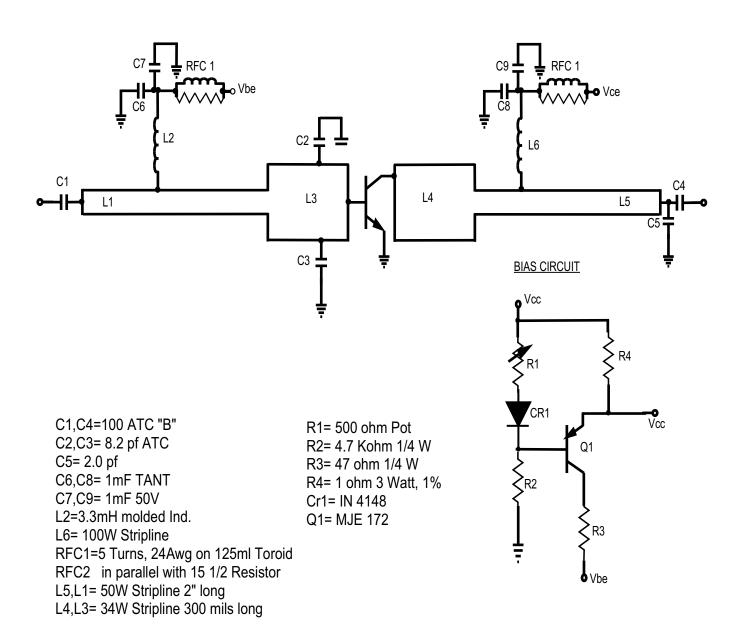


SERIES LOAD IMPEDANCE vs FREQUENCY



UTV010





August 1996