

UTV020

2 Watts, 25 Volts, Class A UHF Television - Band IV & V

The UTV Watt Pea Metaliza	CRAL DESCRIPTION V 020 is a COMMON EMITTER tran ak, Class A, RF Output Power over th tion and Diffused Ballasting are used ruggedness.	CASE OUTLINE 55FT, STYLE 2	
	DLUTE MAXIMUM RATI m Power Dissipation @ 25°C	NGS 17 Watts	
Maximu BVces BVceo BVebo Ic	Im Voltage and Current Collector to Emitter Voltage Collector to Emitter Voltage Emitter to Base Voltage Collector Current	45 Volts 25 Volts 4.0 Volts 1.2 Amps	
Storage 7	um Temperatures Temperature g Junction Temperature	- 65 to + 150°C + 200°C	

ELECTRICAL CHARACTERISTICS @ 25 °C

SYMBOL	CHARACTERISTICS	TEST CONDITIONS	MIN	ТҮР	MAX	UNITS
Pout Pin Pg IMD ¹ VSWR ₁	Power Out - Pk Sync Power Input Power Gain Intermodulation Distortion Load Mismatch Tolerance	F = 470 - 860 MHz Vcc = 25 Volts Ic = 410 mA Pref = 2.0 Watts F = 860 MHz	2.0	12 -60	0.2 30:1	Watts Watts dB dB

LVceo	Collector to Emitter Breakdown	Ic = 40 mA	26			Volts
BVces	Collector to Base Breakdown	Ic = 10 mA	45			Volts
BVebo	Emitter to Base Breakdown	Ie = 1 mA	4.0			Volts
h _{FE}	Current Gain	Vce = 5 V, 250mA	10			
Cob	Output Capacitance	Vcb = 20 V, F = 1 MHz		8.0		pF
θjc	Thermal Resistance	$Tc = 25^{\circ}C$			10	°Ċ/W

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

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

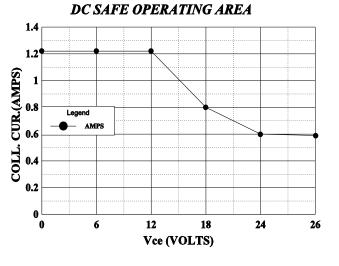
Initial Issue June, 1994

GHZ TECHNOLOGY INC. RESERVES THE RIGHT TO MAKE CHANGES WITHOUT FURTHER NOTICE. GHZ RECOMMENDS THAT BEFORE THE PRODUCT(S) DESCRIBED HEREIN ARE WRITTEN INTO SPECIFICATIONS, OR USED IN CRITICAL APPLICATIONS, THAT THE PERFORMANCE CHARACTERISTICS BE VERIFIED BY CONTACTING THE FACTORY.

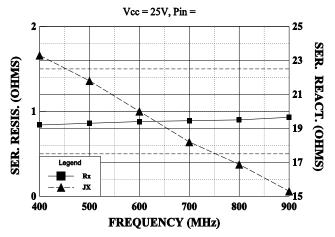
GHz Technology Inc. 3000 Oakmead Village Drive, Santa Clara, CA 95051-0808 Tel. 408 / 986-8031 Fax 408 / 986-8120



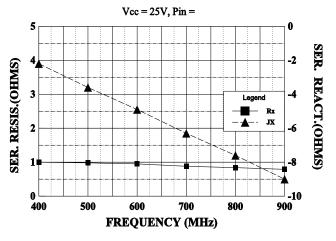
UTV020



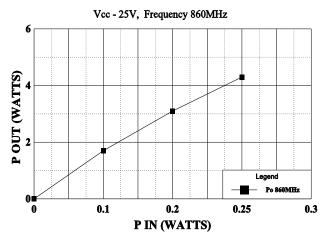
SERIES LOAD IMPEDANCE vs FREQUENCY



SERIES INPUT IMPEDANCE vs FREQUENCY



POWER OUTPUT vs POWER INPUT



IMD vs Pout

