

# *UTV020*

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

The UTV Watt Pea Metaliza	<b>CRAL DESCRIPTION</b> 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	<b>Im Voltage and Current</b> 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	<b>um Temperatures</b> 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 <sup>1</sup> VSWR <sub>1</sub>	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 <sub>FE</sub>	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

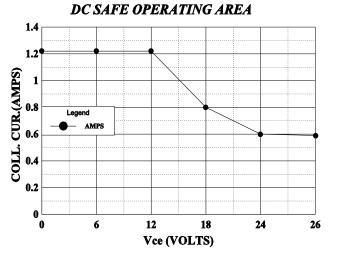
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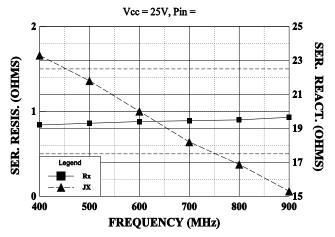
GHz Technology Inc. 3000 Oakmead Village Drive, Santa Clara, CA 95051-0808 Tel. 408 / 986-8031 Fax 408 / 986-8120



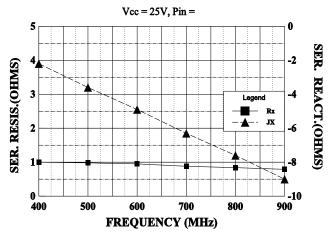
## UTV020



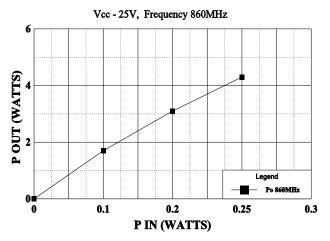
### SERIES LOAD IMPEDANCE vs FREQUENCY



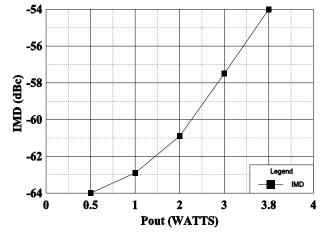
SERIES INPUT IMPEDANCE vs FREQUENCY

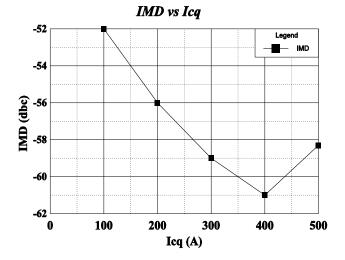


### POWER OUTPUT vs POWER INPUT



IMD vs Pout





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