

UTV020

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

The UTV Watt Pea Metaliza	ERAL DESCRIPTION V 020 is a COMMON EMITTER tran ak, Class A, RF Output Power over the tion and Diffused Ballasting are used ruggedness.	CASE OUTLINE 55FT, STYLE 2	
	LUTE MAXIMUM RATE 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	Im 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
θјс	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

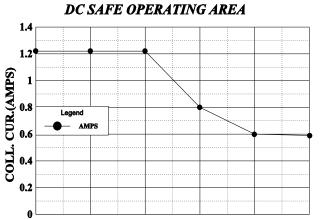
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UTV020



SERIES LOAD IMPEDANCE vs FREQUENCY

Vce (VOLTS)

18

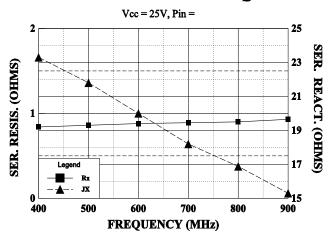
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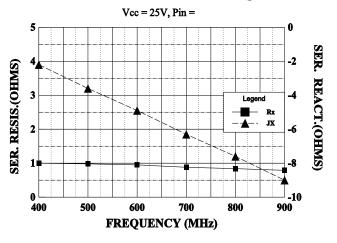
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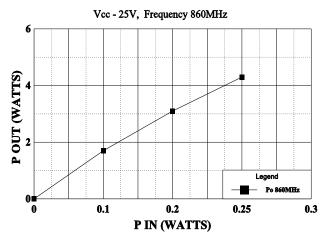
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SERIES INPUT IMPEDANCE vs FREQUENCY



POWER OUTPUT vs POWER INPUT



IMD vs Pout

