

## IMPROVIZED DATASHEET WJ3500 TWT

Expected working conditions normal operation (voltages w.r.t. cathode):

UNIT $F_h$ $P_{out}$ $A_{out}$ $A_{variation}$ $A_{variation}$ $A_{variation}$	$ extstyle{0}$ 1 mW or less $ extstyle{0}$ 1 mW or less $ extstyle{0}$ 1 W $ extstyle{P}_{out}$ $ extstyle{0}$ small $ extstyle{P}_{out}$ a bandwidth	ss P <sub>in</sub>	1.	VALUE 0 - 2.0 GHz 1 W 30 dB > 6 dB > 12 dB > 5 dB		
A <sub>variation</sub> P <sub>in max</sub> X <sub>in</sub> SWR Noise figur	@ ± 10% drivin @ startup	g voltage		> 1 dB 100 mW 50 Ω 1:2.5 > 30 dB		
worse j igur	C				DEV	RMS MAX RIPPLE
$egin{array}{ll} V_k &  ext{Catho} \ V_f &  ext{Filam} \ V_c &  ext{Collect} \ V_h &  ext{Helix} \ V_g &  ext{Grid} \ V_a &  ext{Anode} \ \end{array}$	ent ctor	yellow brown red orange green blue		GND 6.3 V 844 V 844 V -9.3 V 592 V	±5 ±5 ±2 ±5	REG. 10 mV 10 mV 10 mV 25 mV
$I_{k \; max}$ $I_{f \; max}$ $I_{c \; max}$ $I_{h \; max}$ $I_{g \; max}$ $I_{a \; max}$				~20 mA ~0.4 A ~20 mA ~1 mA ?? ~.2 mA		
3	small signal			KHz -		
$f_g$ large signal $V_g$ when modulated			DC	KHz - 40V		

Note: When filament current should be well regulated and not exceed max voltage to prevent burning up. The helix current may not be exceeded either. A trip circuit should be installed to protect the capsule.

These values are not the actual datasheet. These are estimations made by looking at the HP 489A's schematics and calibration guide, comparing with other TWT's from the same manufacturer and era, and the data on the capsule itself. These are broad indications and should be used together with common sense. Take the values listed with a grain of salt!