EDISWAN

MAZDA

6F18

VARIABLE MU H.F. PENTODE

Indirectly heated—for parallel operation

TENTATIVE

GENERAL

The 6F18 is a variable-mu HF. Pentode intended for use in AM/FM Receivers having parallel connected heater chains, and is suitable for use on A.C. Mains.

RATING

Heater Voltage (volts)	V_h	6.3
Heater Current (amps)	I_h	0.2
Maximum Anode Voltage (volts)	$V_{a(max)}$	250
Maximum Screen Voltage (volts)	$V_{g2(max)}$	250
Maximum Anode Dissipation (watts)	P_a	2.25
Maximum Screen Dissipation (watts)	P_{g2}	0.5
Maximum Heater to Cathode Voltage (Volts D.C.)	$V_{h\text{-}k(max)}$	150

INTER-ELECTRODE CAPACITANCES (pF)

Control Grid/Earth	c_{in}	5.2*	6.5**
Anode/Earth	c_{out}	5.0	6.3
Control Grid/Anode	$c_{a\text{-}g1}$	0.0017	0.0021

" Earth " denotes the remaining earthy potential electrodes, heater and shields connected to cathode.

* Inter-electrode capacity with holder capacity balanced out but with cylindrical screen can.

** Total capacity including Carr Fastener holder type 76/840E/T with radial shield and cylindrical screen. The ca-g1 holder Capacity can be reduced to 0.00004 pF by the insertion of a shield between pins 4 and 5, 9 and 1. If an unscreened holder is used (without can or skirt) the total a to g1 capacity with holder becomes 0.0025 pF.

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DIMENSIONS

Maximum Overall length	(mm)	56.0
Maximum Diameter	(mm)	22.2
Maximum Seated Height	(mm)	49.0
Approximate Nett Weight	(ozs)	$\frac{1}{2}$
Approximate Packed Weight	(ozs)	$\frac{3}{4}$

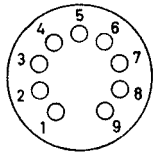
MOUNTING POSITION Unrestricted

TYPICAL OPERATION

Anode Voltage (volts)	V_a	175	175
Screen Voltage (volts)	V_{g2}	100	175
Grid Bias Voltage (volts)	V_{g1}	−1.3	
Anode Current (mA)	I_a	12.0	
Screen Current (mA)	I_{g2}	3.5	
Mutual Conductance (mA/V)	g_m	4.4	
Anode Impedance (kΩ)	r_a	220	
Bias to give mutual conductance of 100 μA/V (volts)			−19.5
Input Capacity working (Hot) (pF)	c_{in}	7.1	
Input Capacity change at cut-off (pF)	Δc	1.7	
Input Loss at 38 Mc/s, cathode pins strapped (kΩ)		16	

BULB Clear

BASE Noval (B.9.A.)



View from free end of Pins

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CONNECTIONS

Pin 1	Cathode	k
Pin 2	Control Grid	g1
Pin 3	Cathode	k
Pin 4	Heater	h
Pin 5	Heater	h
Pin 6	Internal Shield	s
Pin 7	Anode	a
Pin 8	Screen Grid	g2
Pin 9	Suppressor Grid	g3

NOTES

If only one cathode pin is required it is recommended that Pin 3 be used.

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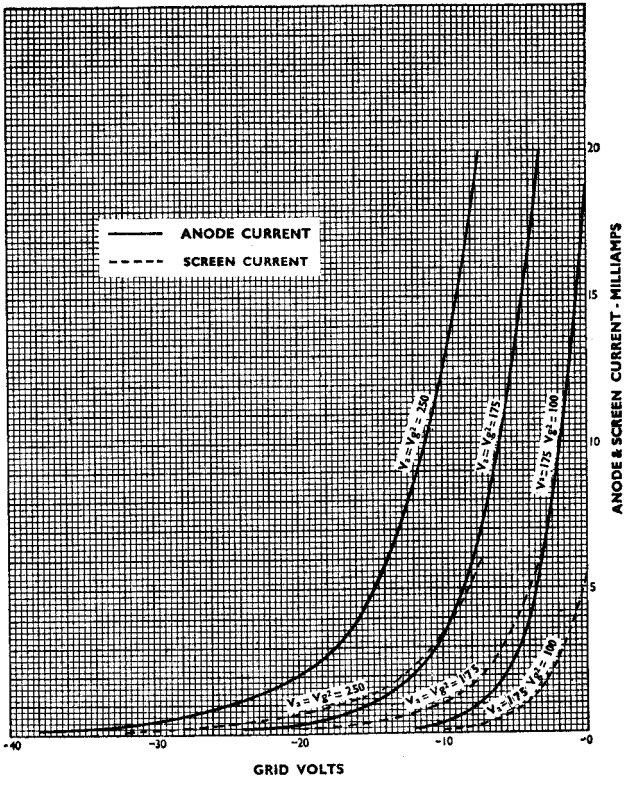
CHARACTERISTIC CURVES



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