



8012

U-H-F TRANSMITTING TRIODE

The 8012 supersedes the Type 1628.

Filament**	Thoriated Tungsten	
Voltage	6.3	a-c or d-c volts
Current	1.92	amp.
Amplification Factor	18	
Direct Interelectrode Capacitances:		
Grid to Plate	2.8	μf
Grid to Filament	2.7	μf
Plate to Filament	0.35	μf
Maximum Overall Length }	Refer to tube outline drawing	
Maximum Diameter }		
Bulb		T-8
Terminal Connections		Special
Cooling		Forced Air ⁰

Maximum Ratings Are Absolute Values

MAXIMUM CCS RATINGS with TYPICAL OPERATING CONDITIONS

CCS = Continuous Commercial Service

GRID-MODULATED R-F POWER AMPLIFIER - Class C Telephony

Carrier conditions per tube for use with a max. modulation factor of 1.0

	<u>CCS</u>	
D-C Plate Voltage	1000 max.	volts
D-C Grid Voltage	-200 max.	volts
D-C Plate Current	65 max.	ma.
Plate Input	50 max.	watts
Plate Dissipation	40 max.	watts
Typical Operation:		
D-C Plate Voltage	1000	volts
D-C Grid Voltage [□]	{ -135	volts
	2500	ohms
Peak R-F Grid Voltage	155	volts
Peak A-F Grid Voltage	65	volts
D-C Plate Current	50	ma.
D-C Grid Current*	4.0 approx.	ma.
Driving Power [▲] *	3.5 approx.	watts
Power Output	20 approx.	watts

[□] Obtained from fixed supply or by cathode resistor of value shown.

[▲] At crest of audio-frequency cycle with modulation factor of 1.0.

PLATE-MODULATED R-F POWER AMPLIFIER - Class C Telephony

Carrier conditions per tube for use with a max. modulation factor of 1.0

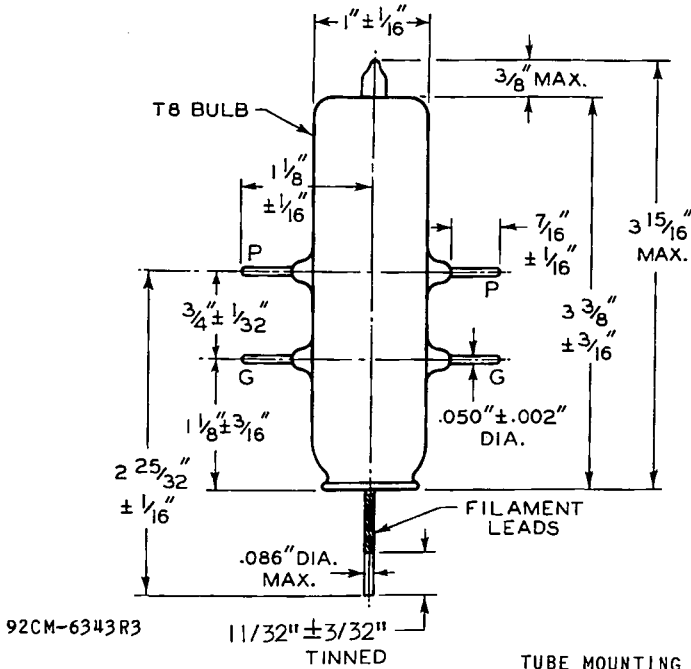
	<u>CCS</u>	
D-C Plate Voltage	800 max.	volts
D-C Grid Voltage	-200 max.	volts
D-C Plate Current	65 max.	ma.
D-C Grid Current	20 max.	ma.
Plate Input	33 max.	watts
Plate Dissipation	27 max.	watts
Typical Operation:		
D-C Plate Voltage	800	volts
D-C Grid Voltage ‡	{ -105	volts
	10000	ohms

** , * , † , ‡ : See next page.



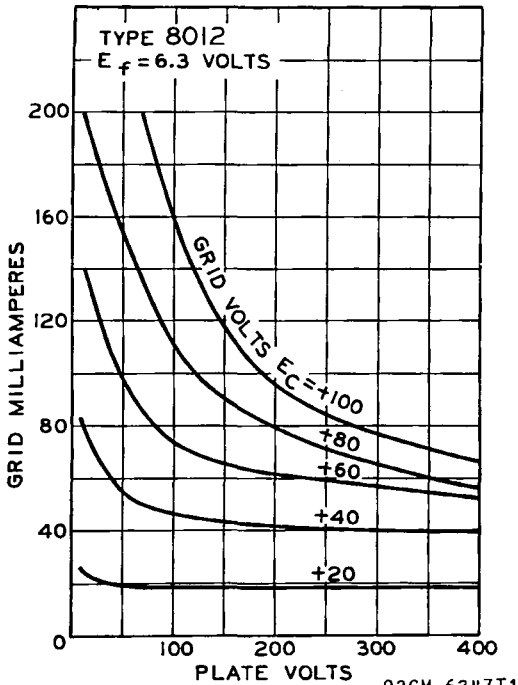
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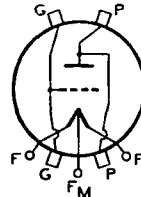


TUBE MOUNTING POSITION
Vertical only

TYPICAL CHARACTERISTICS



TERMINAL CONNECTIONS



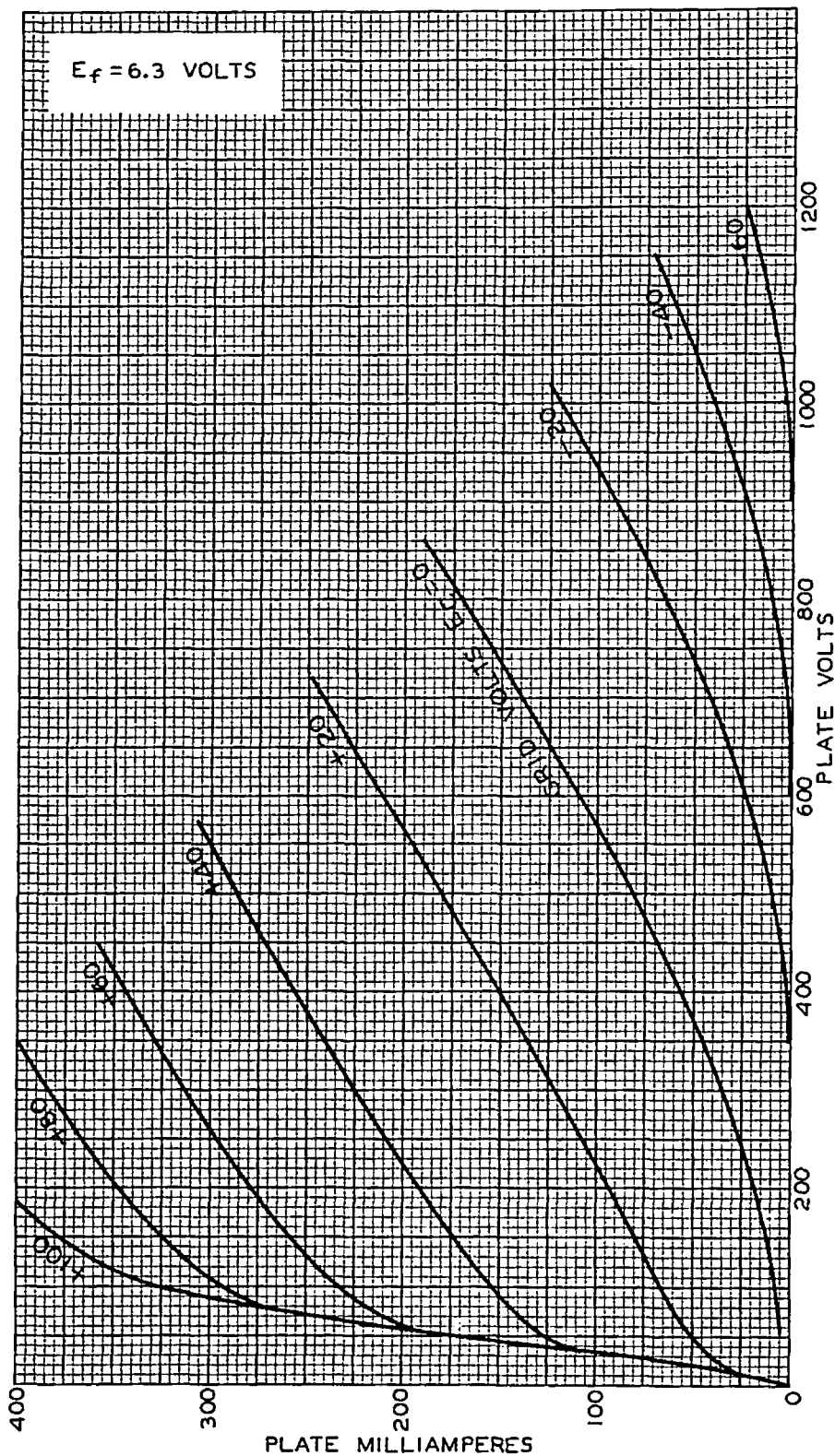
G TERMINALS NEARER FILAMENT LEADS
P TERMINALS NEARER BULB TIP

F - FILAMENT
F_M - FILAMENT
MID-TAP
G - GRID
P - PLATE



8012

AVERAGE PLATE CHARACTERISTICS



92CM-6346