

Type VT-191 Vacuum Tube - - Instructions

The VT-191 is a filamentary air-cooled triode designed for use as an ultrahigh-frequency oscillator and power amplifier. The tube develops a typical power output of 5 watts at a frequency of 500 Mc. The frequency limit of oscillation is 750 Mc.

GENERAL

42.7.22		
Filament Voltage	2	volts
Current	3.65	amperes
Type - Thoriated tungsten		
Average Characteristic Values Calculated at		
Eb = 450 volts; Ib = 67 milliamperes		
	8	
Amplification Factor	2400	micromhos
Grid-plate Transconductance	2100	MILOI OMMIOO
Direct Interelectrode Capacitances	1.6	£
Plate to Grid		μμf
Grid to Filament	1.1	L.L.
Plate to Filament	0.65	μμſ
Type of Cooling - Air		
PLATE MODULATED OSC & RADIO-FREQUENCY POWER AMPLIFIER - CLASS C		
(Carrier conditions to which a modulation factor up to 1.0 can be	e applie	ed)
	400	volts
Maximum D-c Plate Voltage	80	
Maximum D-c Plate Current		*
Maximum D-c Grid Current	15	
Maximum Plate Dissipation	20	watts
AT A CO. A. THINADILL	4 MTD TO	
OSCILLATOR & RADIO-FREQUENCY POWER AMPLIFIER - CLASS C - UNMODUL	ATED	
Maximum D-c Plate Voltage	450	volts
Maximum D-c Plate Current	90	milliamperes
Maximum D-c Plate Input	36	
Maximum D-c Grid Current	15	
	30 30	watts
Waxirin Flate Dissipation	フェ	#2.53
ISCILLATOR & PADIO-FREQUENCY POWER AMPLIFIER		
Intermittent or Reged operation only.		
Duration of operating period 0.1 second maximum.		
·	3300	24-
Maximum D-o Plate Voltage	1100	volts
Maximum Feak D-o Flate Current	250	milliamperes
Maximum Average D-c Plate Current	25	milliamperes

OPERATING PRECAUTIONS

The VT-191 tube must not be subjected to appreciable mechanical shock or vibration. The thoriated tungsten filament of this tube is somewhat more fragile than the thoriated tungsten filaments of other transmitting tubes. These tubes should therefore be handled with more care to prevent filament breakage. In connecting to the terminals of the tube, care must be taken not to strain the glass. The tube ray be supported from the terminals providing flexibility is maintained.

