



## 4CX250B Power Tetrode

### MAXIMUM RATINGS AND TYPICAL OPERATING CONDITIONS

#### RF Power Amplifier or Oscillator--Class C Telegraphy

##### Maximum Ratings

DC Plate Voltage	DC	2000	Volts
Screen Voltage		300	Volts
DC Grid Voltage	DC	-250	Volts
Plate Current		0.25	Ampere
Plate Dissipation		250	Watts
Screen Dissipation		12.0	Watts
Grid Dissipation		2.0	Watts

##### Typical Operation

	Frequencies to 175 MHz				500MHz	
DC Plate Voltage	500	1000	1500	2000	2000	Volts
DC Screen Voltage	250	250	250	250	300	Volts
DC Grid Voltage	-90	-90	-90	-90	-90	Volts
DC Plate Current	250	250	250	250	250	mA
DC Screen Current	45	38	21	19	10	mA
DC Grid Current	35	31	28	26	10	mA
Peak RF Grid Voltage	114	114	112	112	---	Volts
Driving Power	4.0	3.5	3.2	2.9	---	Watts
Plate Input Power	125	250	375	500	500	Watts
Output Power	70	190	280	390	290	Watts
Voltage	6.0	6.0	6.0	6.0	5.5	Volts

#### Plate Modulated RF Power Amplifier--Class C Telephony (Amplifier-Grid Driven)

##### Maximum Ratings

DC Plate Voltage	DC	1500	Volts
Screen Voltage		300	Volts
DC Grid Voltage	DC	-250	Volts
Plate Current		0.20	Ampere
Plate Dissipation		165	Watts
Screen Dissipation		12.0	Watts
Grid Dissipation		2.0	Watts

##### Typical Operation

DC Plate Voltage	500	1000	1500	Volts
DC Screen Voltage	250	250	250	Volts
DC Grid Voltage	-100	-100	-100	Volts
DC Plate Current	200	200	200	mA
DC Screen Current	31	22	20	mA
DC Grid Current	15	14	14	mA
Peak RF Grid Voltage	118	117	117	Volts
Driving Power	1.8	1.7	1.7	Watts
Plate Input Power	100	200	300	Watts
Output Power	60	145	235	Watts