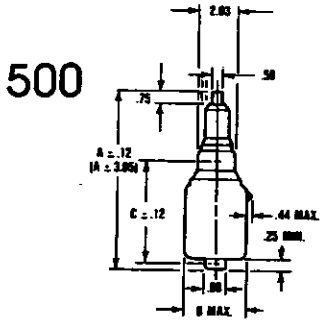
7.5-20kV vacuum variable capacitors 300-600 pF

(ITT - Jennings バキューム コン・カタログ より.)

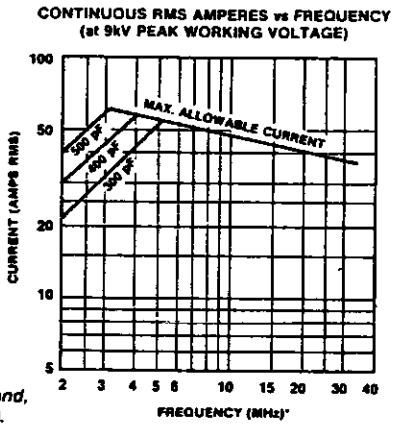
PEAK TEST VOLTAGE (kV)	MODEL NUMBER	CAPACITY RANGE (pF)	PEAK WORKING VOLT. (kV)	AMPS (RMS) MAX.	NOMINAL DIMENSIONS INCHES LENGTH	INCHES DIAMETER	MILLIMETERS LENGTH	MILLIMETERS DIAMETER	TYPE (*)	TORQUE (in.-lbs.) MAX.	DIRECT PULL (Lbs. Max.)	WEIGHT (NOM.) Lbs.
7.5	UCS-300-7.5S	10-300	4.5	45	8.75	2.57	222.25	65.28	G	2.4	50	1 lb 11 oz
10	UCS-300-10S	10-300	6	50	8.75	2.57	222.25	65.28	G	2.4	50	1 lb 11 oz
15	UCS-300-15S	10-300	9	55	8.75	2.57	222.25	65.28	G	2.4	50	1 lb 11 oz
7.5	CVDD-300-7.5S	10-300	4.5	75	7.53	3.44	191.26	87.38	C	1.8	29	3 lb
10	CVDD-300-10S	10-300	6	80	7.53	3.44	191.26	87.38	C	1.8	29	3 lb
15	CVDD-300-15S	10-300	9	85	7.53	3.44	191.26	87.38	C	1.8	29	3 lb
7.5	UCS-400-7.5S	10-400	4.5	45	9.00	3.07	228.60	77.98	G	2.7	50	2 lb
10	UCS-400-10S	10-400	6	50	9.00	3.07	228.60	77.98	G	2.7	50	2 lb
15	UCS-400-15S	10-400	9	55	9.00	3.07	228.60	77.98	G	2.7	50	2 lb
7.5	CSVF-500-007	12-500	4.5	55	7.88	3.50	200.15	88.90	C	2.3	50	3 lb
10	CSVF-500-0010	12-500	6	60	7.88	3.50	200.15	88.90	C	2.3	50	3 lb
15	CSVF-500-0015	12-500	9	65	7.88	3.50	200.15	88.90	C	2.3	50	3 lb
7.5	UCS-500-7.5S	25-500	4.5	50	9.00	3.07	228.60	77.98	G	2.7	50	2 lb
10	UCS-500-10S	25-500	6	55	9.00	3.07	228.60	77.98	G	2.7	50	2 lb
15	UCS-500-15S	25-500	9	60	9.00	3.07	228.60	77.98	G	2.7	50	2 lb
7.5	CVDD-500-7.5S	20-500	4.5	80	7.53	3.44	191.26	87.38	C	1.8	30	3 lb
10	CVDD-500-10S	20-500	6	90	7.53	3.44	191.26	87.38	C	1.8	30	3 lb
15	CVDD-500-15S	20-500	9	95	7.53	3.44	191.26	87.38	C	1.8	30	3 lb
10	UXC-500-10S	25-500	6	70	14.00	5.00	355.60	127.00	G	3.5	84	5 lb 10 oz
15	UXC-500-15S	25-500	9	75	14.00	5.00	355.60	127.00	G	3.5	84	5 lb 10 oz
20	UXC-500-20S	25-500	12	80	14.00	5.00	355.60	127.00	G	3.5	84	5 lb 10 oz
10	CVEP-500-10S	25-500	6	140	9.13	5.56	231.90	141.22	C	6	61	9 lb 4 oz
15	CVEP-500-15S	25-500	9	150	9.13	5.56	231.90	141.22	C	6	61	9 lb 4 oz
20	CVEP-500-20S	25-500	12	160	9.13	5.56	231.90	141.22	C	6	61	9 lb 4 oz
10	CADA-600-10S	40-600	6	75	5.78	3.38	146.81	85.85	C	†	†	2 lb 12 oz
15	CADA-600-15S	40-600	9	80	5.78	3.38	146.81	85.85	C	†	†	2 lb 12 oz

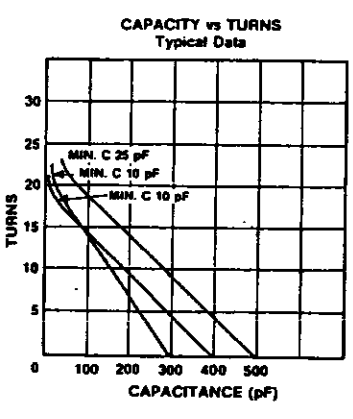
*C-Ceramic / G-Glass † Adjustable unit with locking position

UCS 300, 400, 500

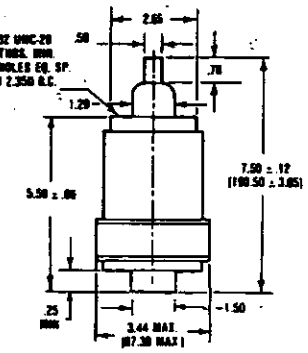


Mounting: Use flange FMOB on fixed end, Flange FM2 on variable end (pg. 54).

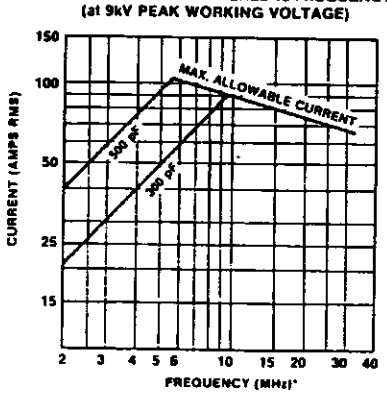


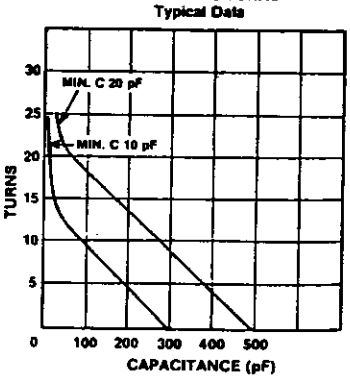


CVDD 300, 500



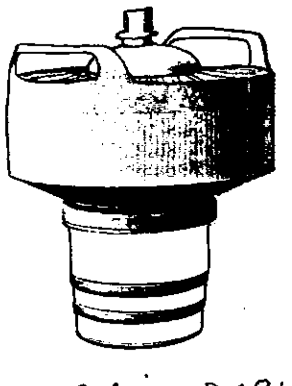
Mounting: Use flange FM1H on fixed end (pg. 54). Variable end tapped holes.





* See Page 6

4CX15,000J/8910



Collins 208U-10A に使用中！
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The 4CX15,000J/8910 is intended for use in audio or radio frequency applications. The internal structure features a mesh filament and a mechanical design which assures good strength and high RF operating efficiency.

Full ratings on the 4CX15,000J/8910 apply to 110 MHz, and it is especially recommended for radio frequency linear amplifier service.

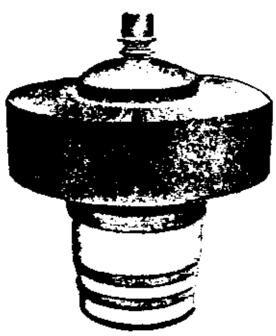
CHARACTERISTICS

Plate Dissipation (Max.) .... 15,000 watts
Screen Dissipation (Max.) .... 450 watts
Grid Dissipation (Max.) .... 200 watts
Frequency for Max. Ratings (CW) .... 110 MHz
Cooling .... Forced Air
Filament .... Thoriated Tungsten mesh
Voltage .... 7.5 volts
Current .... 158 amperes
Capacitances (Gnd. Cath. Connection):
Input .... 160.5 pF
Output .... 26.5 pF
Feed-through .... 1.5 pF
Capacitances (Gnd. Grid Connection):
Input .... 67.0 pF
Output .... 27.5 pF
Feed-through .... 0.2 pF
Amplification Factor (g_1-g_2) 4.5
Base .... Special, Coaxial
Recommended Air-System Socket SK-300A
Recommended Air Chimney SK-316
Maximum Seal & Anode Core Temperature .... 250°C
Maximum Length: .... 9.38 in; 238.00 mm
Maximum Diameter: .... 7.58 in; 193.00 mm
Weight (approximate) .... 12.8 lb; 5.80 kg
Operating Position .... Vertical

Class of Operation	Type of Service	MAXIMUM RATINGS Plate Voltage (volts)	MAXIMUM RATINGS Plate Current (amps)	TYPICAL OPERATION Plate Voltage (volts)	Screen Voltage (volts)	Plate Current (amps)	Drive Power (watts)	Output Power (watts)
C	RF Amplifier	10,000	5.0	10,000	750	4.6	220	36,500
C	RF Amplifier Plate Modulated	8,000	4.0	8,000	750	3.7	150	23,500
AB$_1$	RF Linear Amplifier	10,000	6.0	7,500	1250	2.9	—	12,000†
AB$_1$	AF Amplifier or Modulator	10,000	6.0	10,000	1500	8.5*	—	57,000*

*Two tubes.
†Useful output power, −39 dB 3rd and 5th order products.

4CX20,000A/8990



The 4CX20,000A/8990 is a power tetrode intended for use in audio or radio frequency applications. It features an internal mechanical structure which results in high RF operating efficiency. Low RF losses in this structure permit operation at full ratings up to 110 MHz and at reduced ratings to 220 MHz.

The 4CX20,000A/8990 has a gain of over 18 dB in FM broadcast service, and is also recommended for radio-frequency linear power amplifier service, and for VHF-TV linear amplifier service. The anode is rated for 20 kW of dissipation with forced-air cooling and incorporates a new highly efficient cooler design.

CHARACTERISTICS

Plate Dissipation (Max.) .... 20,000 watts
Screen Dissipation (Max.) .... 450 watts
Grid Dissipation (Max.) .... 200 watts
Frequency for Max. Ratings (CW) .... 110 MHz
Cooling .... Forced Air
Filament .... Thoriated Tungsten
Voltage .... 10.0 volts
Current .... 140 amperes
Capacitances (Gnd. Cath. Connection):
Input .... 190 pF
Output .... 23.5 pF
Feed-through .... 1.5 pF
Capacitances (Gnd. Grid Connection):
Input .... 83 pF
Output .... 24.5 pF
Feed-through .... 0.2 pF
Amplification Factor (g_1-g_2) 6.7
Base .... Special, Coaxial
Recommended Air-System Socket SK-320
Recommended Air Chimney SK-326
Maximum Seal & Anode Core Temperature .... 250°C
Maximum Length: .... 9.5 in; 241.3 mm
Maximum Diameter: .... 8.8 in; 223.5 mm
Weight (approximate) .... 14 lb; 6.4 kg
Operating Position .... Vertical, base up or down

Class of Operation	Type of Service	MAXIMUM RATINGS Plate Voltage (volts)	MAXIMUM RATINGS Plate Current (amps)	TYPICAL OPERATION Plate Voltage (volts)	Screen Voltage (volts)	Plate Current (amps)	Drive Power (watts)	Output Power (watts)
C	RF Amplifier	10,000	5.0	9,000	900	4.0	26.4*	28,200†
C	RF Amplifier at 88.3 MHz‡	10,000	5.0	9,000	800	4.1	325	28,750**
C	RF Amplifier at 107.7 MHz‡	10,000	5.0	9,000	800	4.2	360	28,900**

*Approximate value.
†Plate output power.
**Useful power, at the load.
‡Measured values at frequency shown, in EIMAC CV-2200 cavity amplifier.

THE END

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第2巻「実例・製作〜トラブル特集号」につづく