

137-1848

SPRAGUE CAPACITORS • CAPACITORS • CAPACITORS • CAPACITORS

CERA-MITE® HIGH-VOLTAGE CAPACITORS

- Unique ceramic formulations, carefully constructed lead and terminal configurations, and expansion-matched epoxy coatings contribute to the reliability and safety factor needed for high voltage capacitors.
- 10,000 volt and 15,000 volt rated capacitors are available with radial leads with conformal epoxy coating. Wide lead spacing is suitable for most power supplies.
- 10,000 volt to 40,000 volt rated capacitors are available with axial type screw terminals in the familiar cast epoxy "Doorknob" shape. Two terminal adapters to facilitate wiring of series or parallel combinations, as often necessary for high voltage divider circuits or energy storage reservoirs, are provided.

PERFORMANCE DATA

1. **Operating Temperature Range:** -55°C to +85°C.
2. **Capacitance Tolerance:** +80%, -20%.
3. **Dissipation Factor:** 1.5% maximum.
4. **Dielectric Strength:** 150% of rated voltage at 25°C.
5. **Insulation Resistance:** 200,000 MΩ minimum at 180 VDC, 1000 ΩF.
6. **Temperature Coefficient:** Z5U or better.
7. **Corona Limit:** 100 picocoulombs at rated a-c voltage.
8. **Charging Current:** Limit to 50.0 milliamperes maximum.
9. **Self Resonant Frequency:** Ranges from 50 megahertz for small diameters to 10 megahertz for large diameters.
10. **Discharge Current:** Limit to 100 amperes peak.
11. **Power Dissipation:** Limit to 25°C temperature rise on case.

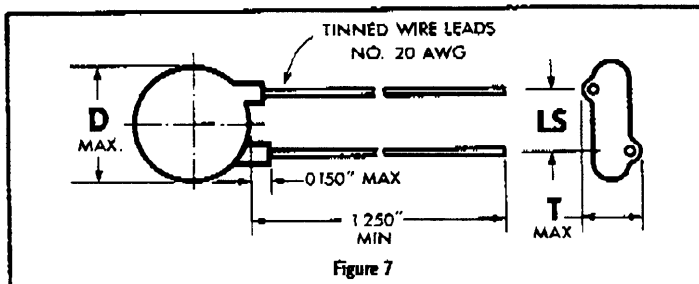


Figure 7

DIMENSIONS (in inches)*							
Code	D Max.	T Max.	Lead Spacing	Code	D Max.	T Max.	Lead Spacing
10,000 VDC				15,000 VDC			
A	.67	.350	.500	A	.67	.500	.750
B	.75	.350	.500	B	.75	.500	.750
C	.81	.350	.500	C	.81	.500	.750
D	.98	.350	.500	D	.98	.500	.750

pF	Catalog Number	Size		
		Figure	D Code	L Code
10,000 VDC, 3000 VAC RMS, 60 Hz				
100	100GAT10	7	A	—
250	100GAT25	7	A	—
500	100GAT50	7	A	—
1000	100GAD10	7	B	—
2500	100GAD25	7	C	—
4700	100GAD47	7	D	—
.01 μF	10DKS10	8	E	K
.02	10DKS20	8	F	K

15,000 VDC, 4500 VAC RMS, 60 Hz				
100	150GAT10	7	A	—
250	150GAT25	7	A	—
500	150GAT50	7	B	—
1000	150GAD10	7	C	—
2500	150GAD25	7	D	—
4700	15DKD47	8	C	K
.01 μF	15DKS10	8	E	K

20,000 VDC, 6000 VAC RMS, 60 Hz				
500	20DKT5	8	B	M
1000	20DKD10	8	C	L
2500	20DKD25	8	D	L
4700	20DKD47	8	F	L
6800	20DKD68	8	H	L

30,000 VDC, 7500 VAC RMS, 60 Hz				
500	30DKT5	8	B	N
1000	30DKD10	8	C	M
2500	30DKD25	8	E	M
3300	30DKD33	8	F	M
4700	30DKD47	8	H	M

40,000 VDC, 10,000 VAC RMS, 60 Hz				
470	40DKT5	8	B	N
1000	40DKD10	8	D	N
2500	40DKD25	8	F	N
3300	40DKD33	8	G	N

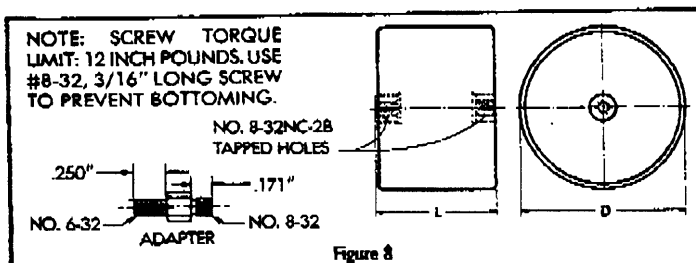


Figure 8

DIMENSIONS (in inches)*					
Diameter			Length		
Code	Max.	Code	Max.	Code	Max.
B	1.05	F	2.13	K	.805
C	1.30	G	2.30	L	1.00
D	1.55	H	2.42	M	1.18
E	1.80			N	1.36