

HIGH DISCHARGE RATE ENERGY-STORAGE METALIZED POLYPROPYLENE FILM CAPACITORS



FEATURES

- Low cost and weight
- 10 PPS discharge rate
- Rugged wrap & fill construction
- Low loss

MAJOR APPLICATIONS: Flash, portable laser, hand held range finder.

PHYSICAL CHARACTERISTICS

CONSTRUCTION: Non-inductive wound metalized polypropylene.

CASE: Flame retardant tape wrap and epoxy endfill.

LEAD MATERIAL: Solder coated copper wire No. 16 AWG.

LEAD STRENGTH: Capable of withstanding a five pound pull force on lead axis.

SPECIAL REQUIREMENTS:

The operational characteristics as stated are typical of standard capacitors. Special designs to meet additional or different requirements are available. Consult factory for additional information.

MARKING:

Dearborn trademark, type or catalog number, capacitance, tolerance and voltage.

ELECTRICAL SPECIFICATIONS

CAPACITANCE RANGE: 5 μF to 100 μF

CAPACITANCE TOLERANCE: +20% -10%, $\pm 10\%$

OPERATING TEMPERATURE: 0°C to +40°C

DC VOLTAGE RANGE: 800 VDC to 1,200 VDC

DISSIPATION FACTOR: 0.3% maximum

VOLTAGE TEST: 150% of rated voltage for 2 minutes

DISCHARGE RATE: 10 discharges per sec. maximum

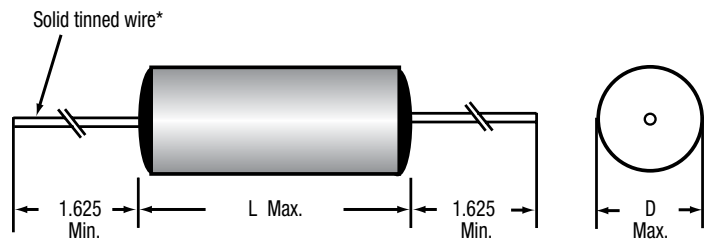
INDUCTANCE: 0.03 to 0.05 μH typical at resonance

INSULATION RESISTANCE:

Measured at 500 VDC after a 2 minute charge.

- At +25°C, 40,000 Megaohm-Microfarads

DIMENSIONS (in inches)



STANDARD RATINGS

μF	Rated Joules	Dimensions (in inches)		Max. Peak Discharge Current (in Amps)
		D Max.	L Max.	
800 VDC				
10	3.2	1.147	2.531	150
25	8	1.688	2.531	350
50	16	2.309	2.531	700
75	24	2.264	3.515	700
100	32	2.243	4.499	700
1,000 VDC				
10	5	1.524	2.531	200
25	12.5	2.296	2.531	500
50	25	2.164	4.499	500
1,200 VDC				
5	3.6	1.364	2.531	100
10	7.2	1.843	2.531	250
25	18	2.232	3.515	400