

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.

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

MARKING:

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

ELECTRICAL SPECIFICATIONS

CAPACITANCE RANGE: 5 μF to 100 μF

CAPACITANCE TOLERANCE: +20% -10%, ±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)

