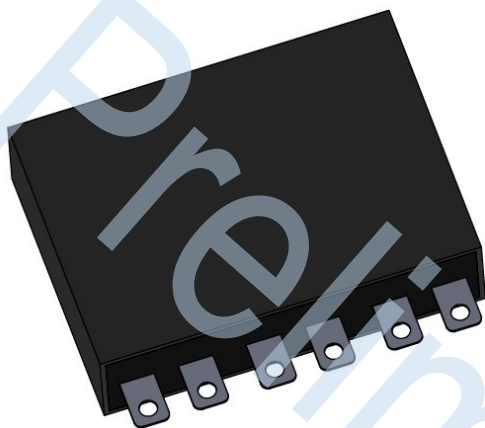


MML™ D-Series

Miniature Micro-Layer™ Film Capacitor with Metallized Polymer Dielectric
Industry-Leading Performance at Temperatures up to 140°C



FEATURES

- ◆ Up to 50% size and weight reduction vs traditional technologies
- ◆ High temperature to +140°C
- ◆ Stable Performance through Temperature/Voltage Range
- ◆ Rugged/Lightweight Construction

ELECTRICAL SPECIFICATIONS

Operating Temp: -55°C to +125°C (Up to 140°C at 0.7*U_{RDC})

Capacitance Range: 100µF to 1800µF

Capacitance Tolerance: ±10%

Voltage Range: 300VDC–1000VDC

Dissipation Factor: 1.0% max, when measured at 1kHz @ 25°C

Insulation Resistance: 10,000 MΩ-µF minimum, when measured at rated voltage (up to 500VDC max) @ 25°C

Dielectric Withstanding Voltage: 1.5*U_{RDC} for 1 minute

APPLICATIONS

Aerospace & Defense, Industrial, Medical, Transportation

PHYSICAL CHARACTERISTICS

Construction: Non-Inductive stacked metallized polymer film encapsulated in flame retardant high temperature epoxy

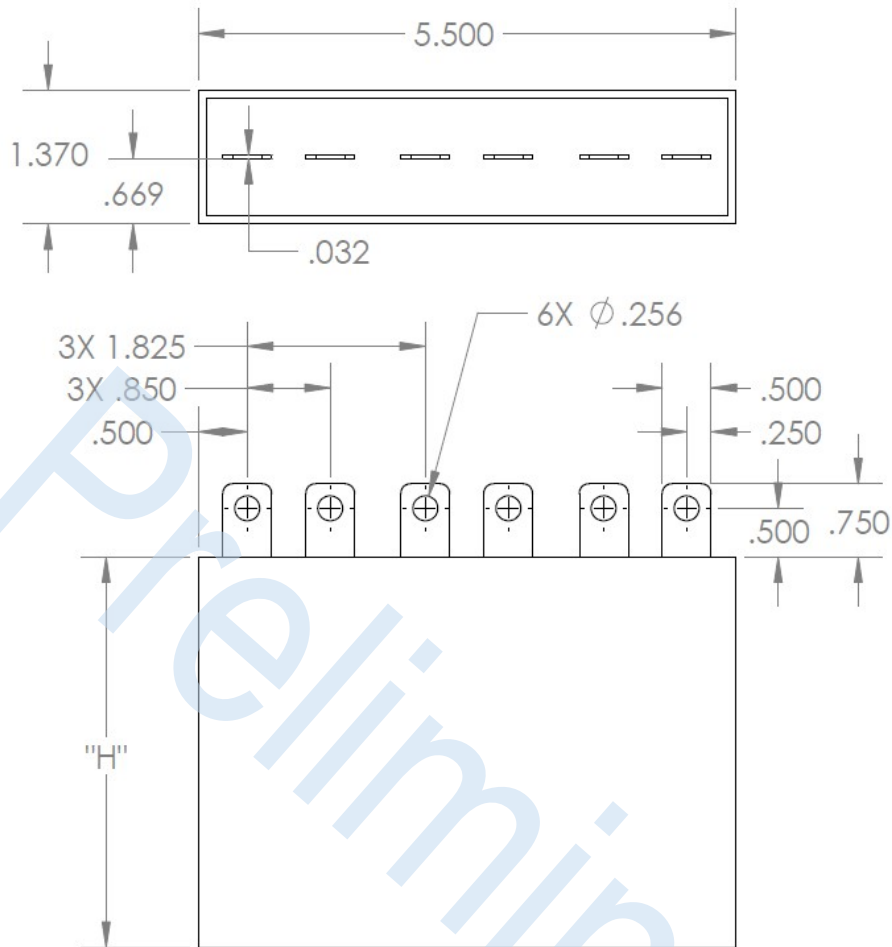
Case: Flame retardant, plastic housing

Leads: Bolt down tinned copper terminals

ORDERING GUIDE

MMLD	B	06	Example
Series	Case Code See Capacitance Ratings Table (page 2)	Capacitance Code See Capacitance Ratings Table (page 2)	MMLDB06
			Capacitance 500µF
			Voltage 600VDC
			Case Height 4.0 in

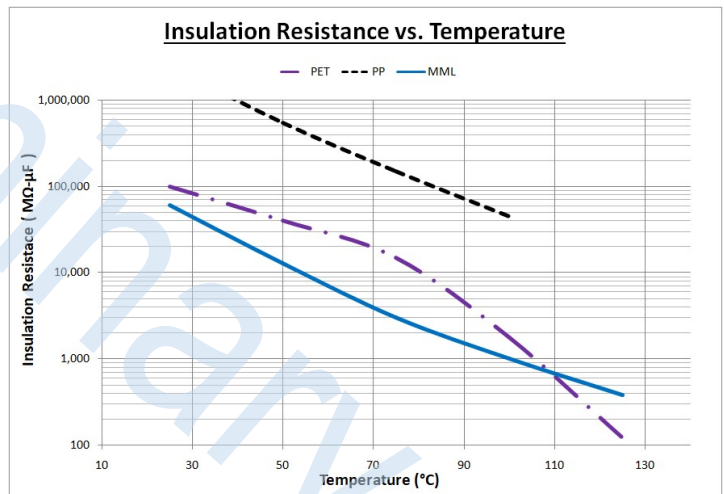
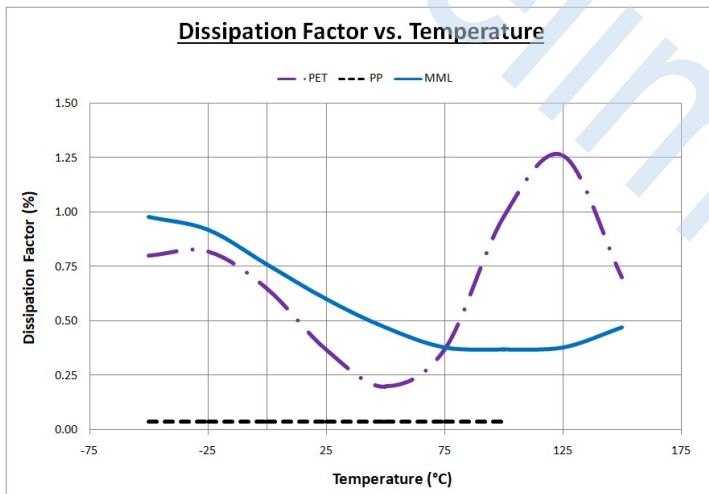
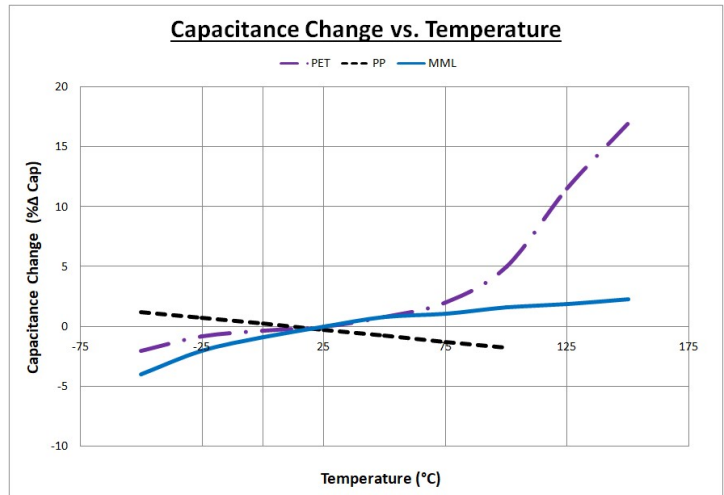
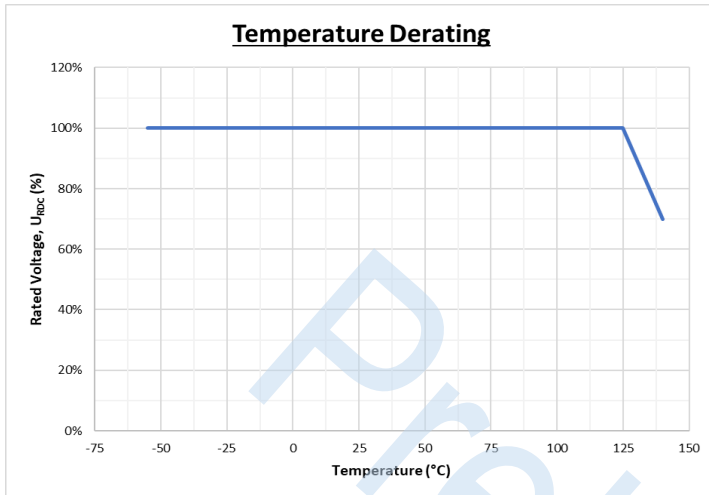
****Custom configurations and extended/intermediary values available upon request.**



		Capacitance Code	Case Size ("H")	Maximum Capacitance	R_s (m Ω)	I_{max} (A $_{rms}$)
Rated Voltage (VDC)	300V	01	A (2 in.)	900 μ F	0.54	100
		02	B (4 in.)	1800 μ F	0.27	200
	450V	03	A (2 in.)	450 μ F	1.06	100
		04	B (4 in.)	900 μ F	0.53	200
	600V	05	A (2 in.)	250 μ F	1.91	100
		06	B (4 in.)	500 μ F	0.95	200
	850V	07	A (2 in.)	125 μ F	3.82	50
		08	B (4 in.)	250 μ F	1.91	100
	1000V	09	A (2 in.)	100 μ F	4.78	50
		10	B (4 in.)	200 μ F	2.39	100

****Custom configurations and extended/Intermediary values available upon request.**

MML™ Performance Characteristics



Environmental Test	Standard	Method	Condition
Humidity (Steady-State)	MIL-STD-202	103	C
Barometric Pressure (Reduced)	MIL-STD-202	105	C
Thermal Shock	MIL-STD-202	107	A
Life (at Elevated Ambient Temperature)	MIL-STD-202	108	F
Vibration, High Frequency	MIL-STD-202	204	D
Shock (Specified Pulse)	MIL-STD-202	213	I
Resistance to Solvents	MIL-STD-202	215	-
Fungus	MIL-STD-810	508	-