

MML™ C-Series

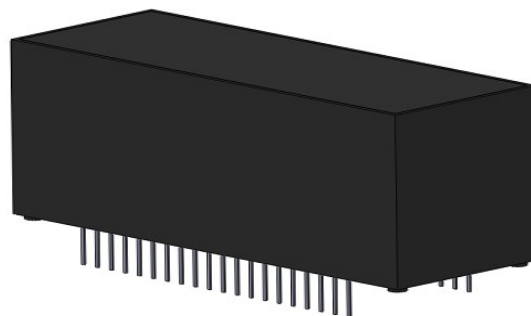
Miniature Micro-Layer™ Film Capacitor with Metallized Polymer Dielectric Industry-Leading Performance at Temperatures up to 140°C

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

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, molded diallyl phthalate (DAP) Housing

Leads: Tinned copper pins on 0.100" centers. See page 2 for number of pins

ELECTRICAL SPECIFICATIONS

Operating Temp: -55°C to +125°C (Up to 140°C with derating)

Capacitance Range: 2.2µF to 300µF

Capacitance Tolerance: ±10%

Voltage Range: 300VDC–1000VDC

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

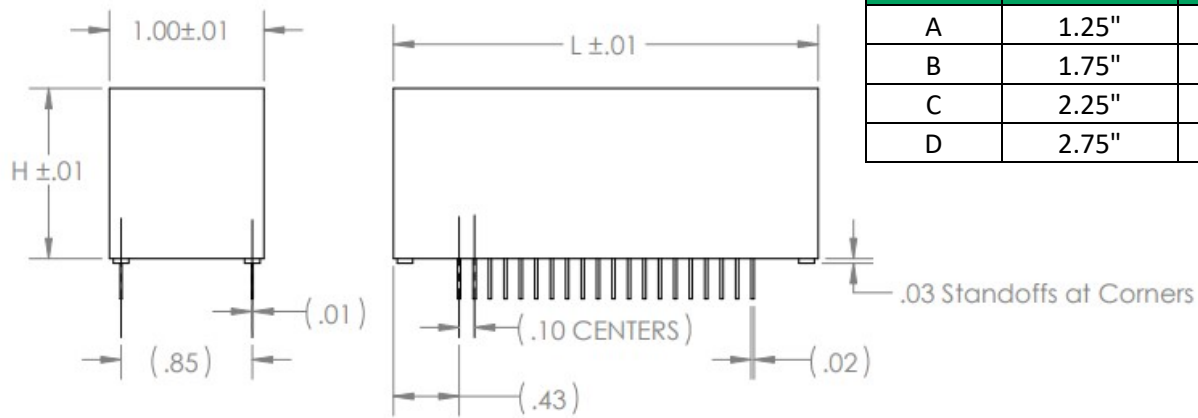
Insulation Resistance: 10,000 MΩ-µF minimum, when measured at rated voltage (up to 500VDC max) @ 25°C

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

ORDERING GUIDE

<u>MMLC</u>	<u>B</u>	<u>07</u>	<u>Example</u>
Series	Case Code See Capacitance Ratings Table (page 2)	Capacitance Code See Capacitance Ratings Table (page 2)	MMLCB07
			Capacitance 54µF
			Voltage 450VDC
			Case Height 0.9 in

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

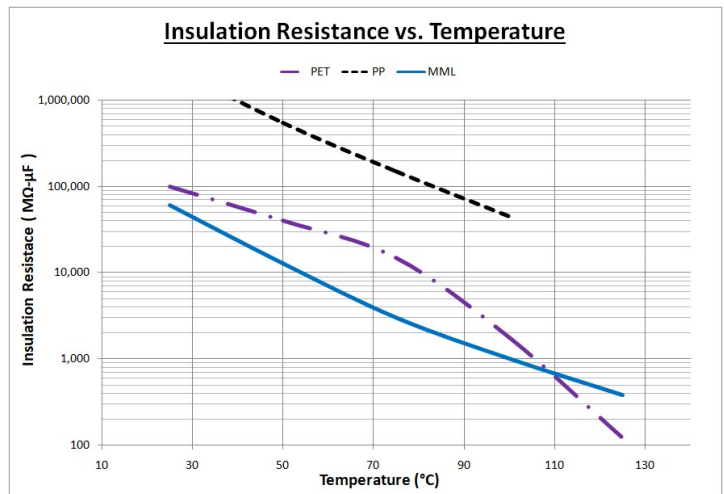
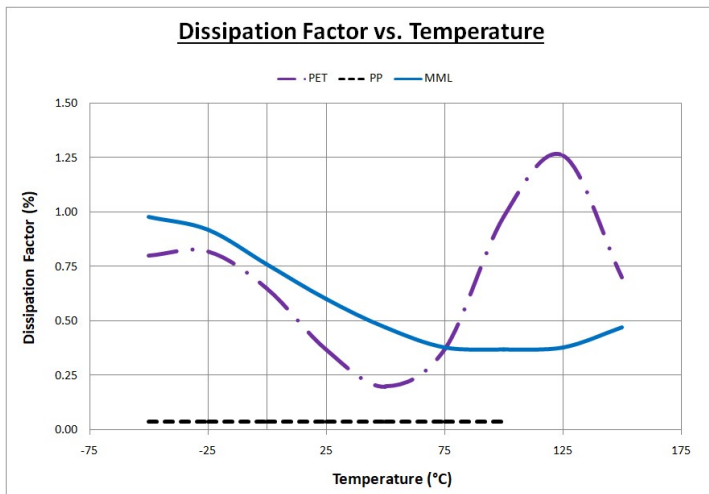
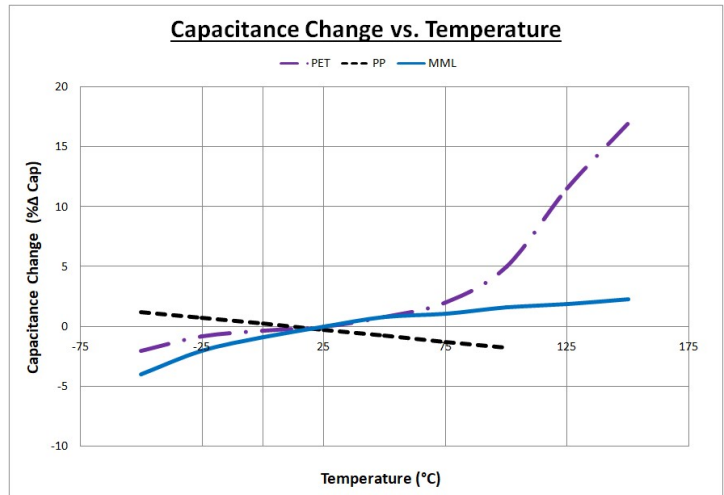
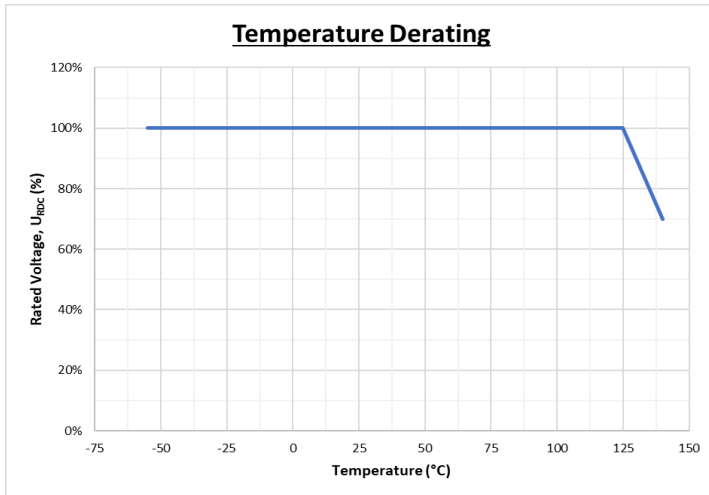


Case Code	Case Length "L"	No. Pins per Side
A	1.25"	5
B	1.75"	10
C	2.25"	15
D	2.75"	20

Rated Voltage (VDC)	Capacitance Code	Case Height "H"	Rated Capacitance by Case Code			
			A (1.25")	B (1.75")	C (2.25")	D (2.75")
300V	01	0.5"	30 µF	45 µF	60 µF	75 µF
	02	0.7"	60 µF	90 µF	120 µF	150 µF
	03	0.9"	90 µF	135 µF	180 µF	225 µF
	04	1.1"	120 µF	180 µF	240 µF	300 µF
450V	05	0.5"	12 µF	18 µF	24 µF	30 µF
	06	0.7"	24 µF	36 µF	48 µF	60 µF
	07	0.9"	36 µF	54 µF	72 µF	90 µF
	08	1.1"	48 µF	72 µF	96 µF	120 µF
600V	09	0.5"	6 µF	9 µF	12 µF	16 µF
	10	0.7"	12 µF	18 µF	25 µF	32 µF
	11	0.9"	18 µF	27 µF	38 µF	48 µF
	12	1.1"	24 µF	36 µF	50 µF	64 µF
850V	13	0.5"	4 µF	6 µF	8 µF	10 µF
	14	0.7"	8 µF	12 µF	16 µF	20 µF
	15	0.9"	12 µF	18 µF	24 µF	30 µF
	16	1.1"	16 µF	24 µF	32 µF	40 µF
1000V	17	0.5"	2.2 µF	3.3 µF	4.7 µF	5.6 µF
	18	0.7"	4.7 µF	6.8 µF	9 µF	12 µF
	19	0.9"	6.8 µF	10 µF	14 µF	17 µF
	20	1.1"	9 µF	14 µF	18 µF	23 µF

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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

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