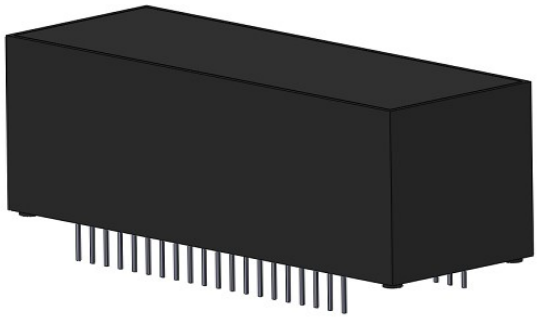
MML™ C-Series

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

MMLC	B	07
Series	**Case Code** See Capacitance Ratings Table (page 2)	**Capacitance Code** See Capacitance Ratings Table (page 2)

Example

MMLCB07

Capacitance	54µF
Voltage	450VDC
Case Height	0.9 in

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

Exxelia USA
1221 N. US Highway 17-92
Longwood, FL 32750

(407) 695-6562
www.exxelia.com
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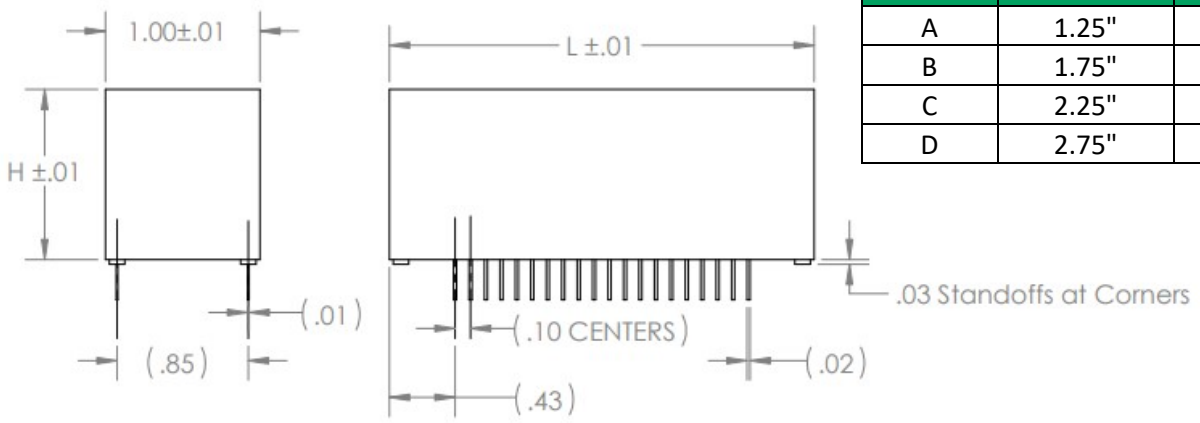

Case Code	Case Length "L"	No. Pins per Side
A	1.25"	5
B	1.75"	10
C	2.25"	15
D	2.75"	20

		Capacitance Code	Case Height "H"	Rated Capacitance by Case Code			
				A (1.25")	B (1.75")	C (2.25")	D (2.75")
Rated Voltage (VDC)	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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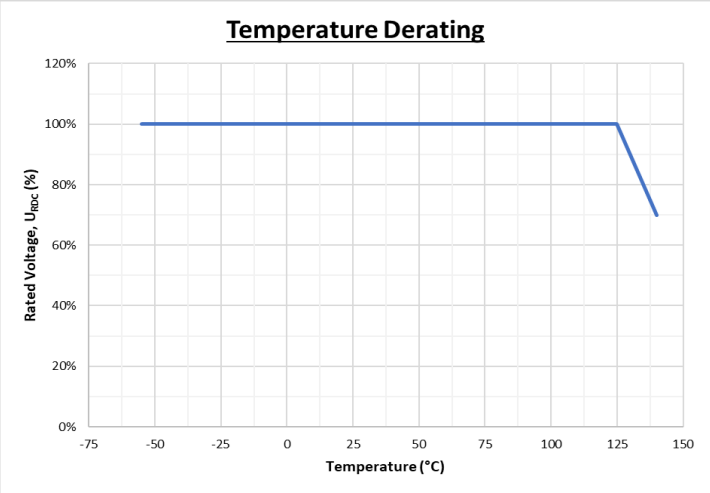
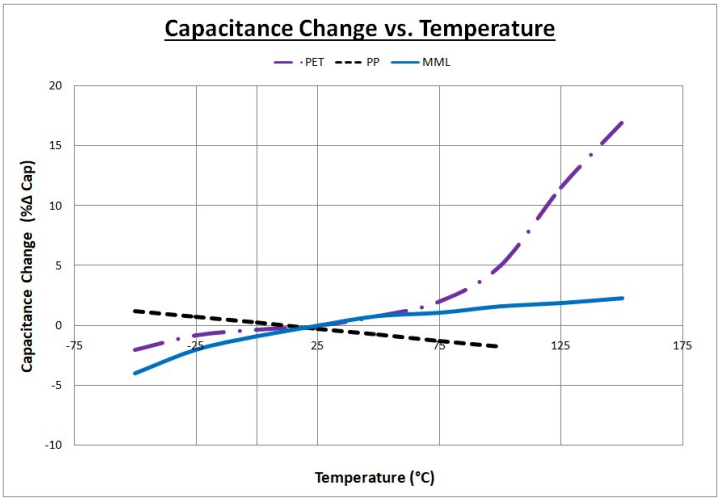
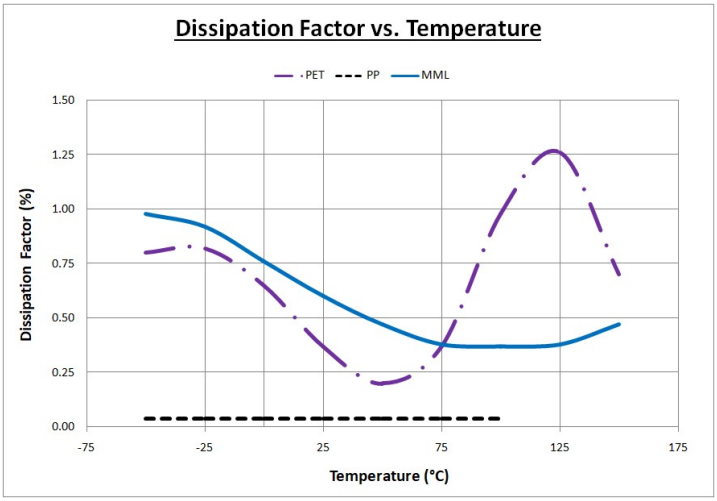
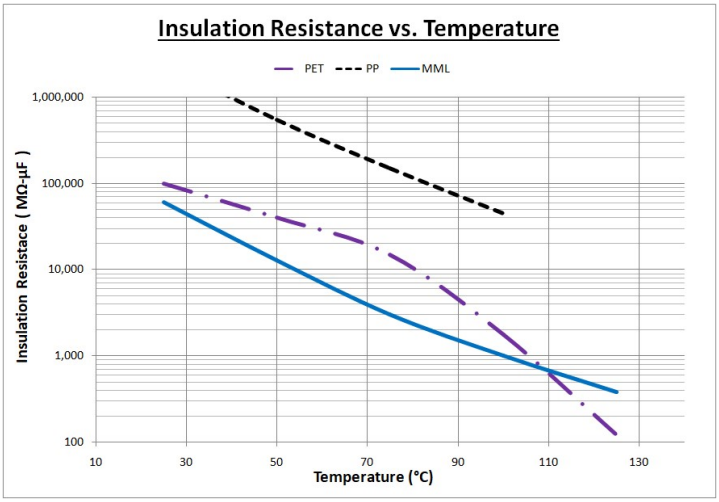
MML™ Performance Characteristics









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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