

## Product Line Summary

Applications	Product Line	Illustration	Features	Offering
	<b>General Capacitors (C Series)</b> 		<ul style="list-style-type: none"> <li>Thin ceramic dielectric layer capability</li> <li>Wide range of case size availability</li> <li>Superior dimensional precision</li> <li>Available in C0G, X7R, X5R, Y5V</li> </ul>	<ul style="list-style-type: none"> <li>C1005 : up to 4.7 <math>\mu</math>F</li> <li>C1608 : up to 10 <math>\mu</math>F</li> <li>C2012 : up to 47 <math>\mu</math>F</li> <li>C3216 : up to 47 <math>\mu</math>F</li> <li>C3225 : up to 100 <math>\mu</math>F</li> <li>C4520 : up to 1 nF</li> <li>C4532 : up to 100 <math>\mu</math>F</li> <li>C5750 : up to 100 <math>\mu</math>F</li> </ul>
General Application	<b>Mid Voltage (C Series)</b> 		<ul style="list-style-type: none"> <li>100V, 250V and 630V DC availability</li> <li>Employs unique electrode design</li> </ul>	<ul style="list-style-type: none"> <li>C1005 - C5750 / C0G, X7R, X5R</li> <li>100V - 630V / up to 4.7 <math>\mu</math>F</li> </ul>
	<b>High Voltage (C Series)</b>		<ul style="list-style-type: none"> <li>Up to 3000V rating</li> <li>Prevents corona on surface</li> <li>Based on ISO8802-3 for LAN</li> </ul>	<ul style="list-style-type: none"> <li>C4520 - C4532 / C0G, X7R</li> <li>1000V - 3000V / up to 10 nF</li> </ul>
Automotive Application	<b>Automotive (CGA Series)</b> 		<ul style="list-style-type: none"> <li>For use in automotive electronic equipment (power train, safety equipment, etc.)</li> <li>Follows CDF-AEC-Q200 tests</li> </ul>	<ul style="list-style-type: none"> <li>C0603 - C5750 / C0G, X7R, X7S, X8R</li> <li>25V - 630V / up to 47 <math>\mu</math>F</li> </ul>
High Temperature	<b>X8R (C Series)</b>		<ul style="list-style-type: none"> <li>Stable temp char (+/-15%) up to 150C</li> <li>Precise temp char (+/- 7.5%) up to 125C</li> </ul>	<ul style="list-style-type: none"> <li>C1005 - C3225 / X8R</li> <li>16V - 100V / up to 3.3 <math>\mu</math>F</li> </ul>
Space Saver	<b>Cap Array (CKC Series)</b> 		<ul style="list-style-type: none"> <li>4-in-1 and 2-in-1 designs available</li> <li>Reduced PCB space and mounting time</li> <li>Unique electrode design reduces crosstalk</li> </ul>	<ul style="list-style-type: none"> <li>C1310 - C3216 / C0G, X5R, X7R</li> <li>2-in-1 : 6.3V - 50V / up to 2.2 <math>\mu</math>F</li> <li>4-in-1 : 6.3V - 50V / up to 1.0 <math>\mu</math>F</li> </ul>
Electrolytic/ Film Capacitor Replacement	<b>Mega Cap (CKG Series)</b> 		<ul style="list-style-type: none"> <li>2x capacitance on single foot print</li> <li>Low ESR and ESL</li> <li>Absorbs thermal and mechanical stress</li> </ul>	<ul style="list-style-type: none"> <li>X5R, X7R, X7S / 16V - 630 V</li> <li>Single stack: up to 47 <math>\mu</math>F</li> <li>Double stack: up to 100 <math>\mu</math>F</li> </ul>
	<b>High Cap (C Series)</b> 		<ul style="list-style-type: none"> <li>Large case size and capacitance</li> <li>Capacitance up to the electrolytic range</li> <li>Low ESR and good freq characteristics</li> </ul>	<ul style="list-style-type: none"> <li>C3216 - C5750 / X7R, Y5V</li> <li>C1005 - C5650 / C0G</li> <li>4V - 100V / up to 100 <math>\mu</math>F</li> </ul>
	<b>Controlled ESR (CER Series)</b> 		<ul style="list-style-type: none"> <li>Unique design solves "low" ESR problem</li> <li>Same mount method as 2 terminal design</li> <li>Control ESR without affecting ESL</li> </ul>	<ul style="list-style-type: none"> <li>C1608 - C2012 / X5R / 4V</li> <li>1<math>\mu</math>F and 10<math>\mu</math>F / ESR: 20 m<math>\Omega</math> to 1200 m<math>\Omega</math></li> </ul>
	<b>Flip Type (C Series)</b> 		<ul style="list-style-type: none"> <li>Low inductance (less than 400 pH)</li> <li>Provide stabilization of power line voltage</li> <li>High frequency noise suppression</li> </ul>	<ul style="list-style-type: none"> <li>C0510 - C1632 / X5R, X5S, X6S, X7R, X7S</li> <li>4V - 50V / up to 10 <math>\mu</math>F / 100 pH - 180 pH</li> </ul>
Low Inductance	<b>Feed Through (CKD Series)</b> 		<ul style="list-style-type: none"> <li>EMI prevention products</li> <li>Optimum noise bypass</li> <li>Low parasitic inductance</li> </ul>	<ul style="list-style-type: none"> <li>C1608 - C3216 / JB</li> <li>6.3V - 50V / up to 22 <math>\mu</math>F</li> </ul>
	<b>Ultra Low Inductance (CLL Series)</b>		<ul style="list-style-type: none"> <li>Offsetting magnetic fields</li> <li>Lowest available inductance</li> <li>High speed digital IC decoupling</li> </ul>	<ul style="list-style-type: none"> <li>C1608 - C2012 / X7R, X7S</li> <li>4V - 10V / up to 4.7 <math>\mu</math>F / 65 pH - 70 pH</li> </ul>
	<b>Soft Termination (C Series)</b> 		<ul style="list-style-type: none"> <li>Improved bending resistance</li> <li>Improved temperature cycle performance</li> <li>RoHS, WEE, and REACH compliant</li> </ul>	<ul style="list-style-type: none"> <li>C1005 - C3225 / C0G, X5R, X7R, X7S, X8R</li> <li>10V - 630V / up to 10 <math>\mu</math>F</li> </ul>
Board Flexure	<b>Open Mode (C Series)</b>		<ul style="list-style-type: none"> <li>Increased resistance to bending stress</li> <li>Fails "open"</li> <li>X7R &amp; X8R temp characteristics</li> </ul>	<ul style="list-style-type: none"> <li>C2012 - C5750 / X7R, X8R</li> <li>16V - 630V / up to 22 <math>\mu</math>F</li> </ul>
	<b>Serial Construction (CEU Series)</b> 		<ul style="list-style-type: none"> <li>Floating electrode construction prevents sudden insulation breakdown after flex crack formation</li> </ul>	<ul style="list-style-type: none"> <li>C1608 - C2012 / X7R</li> <li>50V / up to 100 nF</li> </ul>
Low ESR	<b>High Q (C Series)</b> 		<ul style="list-style-type: none"> <li>Higher Q (lower loss) than standard caps</li> <li>Lower price compared to High Q Caps</li> <li>Same C0G BME material</li> <li>Same production process</li> </ul>	<ul style="list-style-type: none"> <li>C0603 / C0G</li> <li>25V / up to 15pF</li> </ul>

BME Technology

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