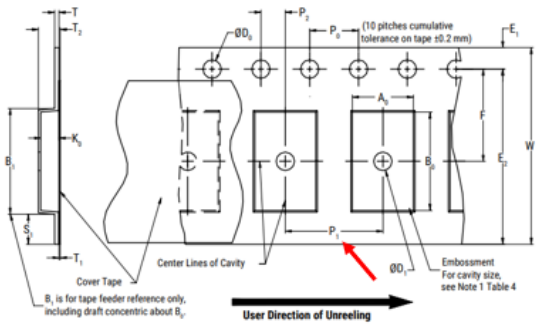


Reference: QOD-510

## Product/Process Change Notification

### PCN-090521-MRL

<b>ID Number/Date</b>	<b>ID Number (MMDDYY):</b> PCN-090521-MRL, September 5 <sup>th</sup> , 2021																																																					
<b>Affected Product/s</b>	<p>This PCN only affects a subset of EIA case size 1808 part numbers within the below series EIA Case Size 1808 High Voltage COG and X7R</p> <ul style="list-style-type: none"> <li>SMD COG High Voltage Automotive and Commercial, Standard and Flexible Termination</li> <li>SMD X7R High Voltage Automotive and Commercial, Standard and Flexible Termination</li> <li>See part number list at the end of PCN for affected part types</li> </ul>																																																					
<b>Change Overview</b>	<p>The affected part numbers have a Tape and Reel Pitch (<math>P_1</math>) of 4mm per the catalog below. However, since the beginning of production of these part types, they were actually being shipped with a <math>P_1</math> dimension of 8mm. This PCN will change the pitch of the parts being shipped to match the catalog specification of 4mm.</p>  <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th colspan="9" style="text-align: center;">Variable Dimensions – Millimeters (Inches)</th> </tr> <tr> <th>Tape Size</th> <th>Pitch</th> <th><math>B_1</math> Maximum Note 4</th> <th><math>E_2</math> Minimum</th> <th>F</th> <th><math>P_1</math></th> <th><math>T_2</math> Maximum</th> <th>W Maximum</th> <th><math>A_0, B_0</math> &amp; <math>K_0</math></th> </tr> </thead> <tbody> <tr> <td>8 mm</td> <td>Single (4 mm)</td> <td>4.35 (0.171)</td> <td>6.25 (0.246)</td> <td>3.5 ±0.05 (0.138 ±0.002)</td> <td style="border: 2px solid red;">4.0 ±0.10 (0.157 ±0.004)</td> <td>2.5 (0.098)</td> <td>8.3 (0.327)</td> <td rowspan="3" style="text-align: center;">Note 5</td> </tr> <tr> <td>12 mm</td> <td>Single (4 mm) and double (8 mm)</td> <td>8.2 (0.323)</td> <td>10.25 (0.404)</td> <td>5.5 ±0.05 (0.217 ±0.002)</td> <td>8.0 ±0.10 (0.315 ±0.004)</td> <td>4.6 (0.181)</td> <td>12.3 (0.484)</td> </tr> <tr> <td>16 mm</td> <td>Triple (12 mm)</td> <td>12.1 (0.476)</td> <td>14.25 (0.561)</td> <td>7.5 ±0.05 (0.138 ±0.002)</td> <td>12.0 ±0.10 (0.157 ±0.004)</td> <td>4.6 (0.181)</td> <td>16.3 (0.642)</td> </tr> </tbody> </table> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th>Dimension</th> <th>Current Pitch in Catalog</th> <th>Current Pitch Being Shipped</th> <th>New Pitch in Catalog</th> <th>New Pitch Being Shipped</th> </tr> </thead> <tbody> <tr> <td>Pitch (<math>P_1</math>)</td> <td style="text-align: center;">4mm</td> <td style="text-align: center;">8mm</td> <td style="text-align: center;">4mm</td> <td style="text-align: center;">4mm</td> </tr> </tbody> </table> <ul style="list-style-type: none"> <li>Only the <math>P_1</math> dimension will be changing</li> <li>No changes to the catalog will be made</li> <li>No changes in reel quantity for both 7" and 13"</li> </ul>	Variable Dimensions – Millimeters (Inches)									Tape Size	Pitch	$B_1$ Maximum Note 4	$E_2$ Minimum	F	$P_1$	$T_2$ Maximum	W Maximum	$A_0, B_0$ & $K_0$	8 mm	Single (4 mm)	4.35 (0.171)	6.25 (0.246)	3.5 ±0.05 (0.138 ±0.002)	4.0 ±0.10 (0.157 ±0.004)	2.5 (0.098)	8.3 (0.327)	Note 5	12 mm	Single (4 mm) and double (8 mm)	8.2 (0.323)	10.25 (0.404)	5.5 ±0.05 (0.217 ±0.002)	8.0 ±0.10 (0.315 ±0.004)	4.6 (0.181)	12.3 (0.484)	16 mm	Triple (12 mm)	12.1 (0.476)	14.25 (0.561)	7.5 ±0.05 (0.138 ±0.002)	12.0 ±0.10 (0.157 ±0.004)	4.6 (0.181)	16.3 (0.642)	Dimension	Current Pitch in Catalog	Current Pitch Being Shipped	New Pitch in Catalog	New Pitch Being Shipped	Pitch ( $P_1$ )	4mm	8mm	4mm	4mm
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**KEMET Corporation**

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<b>Justification and Benefits</b>	Manufacturing Productivity Improvement	
<b>Effective Date and Identification</b>	Orders placed after October 4 <sup>th</sup> , 2021 will start receiving reels with 4mm pitch.	
<b>For General Information Contact</b>	Mark R. Laps Technical Product Manager Ceramic Business Unit <a href="mailto:marklaps@kemet.com">marklaps@kemet.com</a>	
<b>Affected Part Numbers</b>	Table below shows ONLY part types with shipments history for the last 24 months.	
	<b>PCN Name</b>	<b>KEMET Part Type</b>
	PCN-090521-MRL	C1808C681KHRACTU
	PCN-090521-MRL	C1808C471KHRACTU
	PCN-090521-MRL	C1808X102KHRACTU
	PCN-090521-MRL	C1808C103KFRACTU
	PCN-090521-MRL	C1808C102KHRACTU
	PCN-090521-MRL	C1808C152KGRACTU
	PCN-090521-MRL	C1808C153KDRACTU
	PCN-090521-MRL	C1808C222KGRACTU
	PCN-090521-MRL	C1808C681JGGACTU
	PCN-090521-MRL	C1808C331KHRACTU
	PCN-090521-MRL	C1808C181FHGACAUTO
	PCN-090521-MRL	C1808X222KGRACTU
	PCN-090521-MRL	C1808C102KHRAC76217800
	PCN-090521-MRL	C1808C102KHRACAUTO
	PCN-090521-MRL	C1808C563KCRACTU
	PCN-090521-MRL	C1808X152KFGACTU
	PCN-090521-MRL	C1808C272KGRACTU
	PCN-090521-MRL	C1808C102KZRACTU
	PCN-090521-MRL	C1808C562KFRACTU
	PCN-090521-MRL	C1808C681FGGACAUTO
	PCN-090521-MRL	C1808X222MGRACTU
	PCN-090521-MRL	C1808C151FHGACTU
	PCN-090521-MRL	C1808C153KBRALTU
	PCN-090521-MRL	C1808C102KHRACWENG7800
	PCN-090521-MRL	C1808C102MZRACTU