



## CYLINDRICAL SMD RESISTORS














### KEY BENEFITS

- Three industry-standard sizes: 0102, 0204, and 0207
- Broadest resistance range: 0.16  $\Omega$  to 10 M $\Omega$
- Tight tolerances down to  $\pm 0.1\%$
- Excellent pulse performance
- Lead (Pb)-free construction
- High-frequency styles available from 1  $\Omega$  to 1 k $\Omega$
- Fusible types for constant voltage and constant current
- Standard/professional, jumper, precision, and high-frequency options
- SMM0204; SMM0207: AEC-Q200 qualified



# CYLINDRICAL SMD RESISTORS

Model	Function	Rated Power at 70 °C (W)	Resistance Range	Tolerance (%)	TC (ppm / K)	Applications
<b>SMM0102</b> ●  2.2 mm x 1.1 mm	Standard, Professional	0.2	100 Ω ... 2.21 MΩ	± 0.1 / ± 1	± 15 / ± 25 / ± 50	<b>AUTOMOTIVE:</b> <ul style="list-style-type: none"> <li>• Engine management</li> <li>• ABS and traction</li> <li>• Electronic displays</li> <li>• Security systems</li> <li>• Electronic gearboxes</li> <li>• Lighting</li> <li>• Dashboard</li> <li>• Climate controls</li> </ul> <b>MEASUREMENT:</b> <ul style="list-style-type: none"> <li>• Measuring tools / equipment</li> <li>• Calibrating transmitters</li> <li>• Test oscillators</li> <li>• HF-amplifiers</li> <li>• Precision scales</li> <li>• Measuring transducers</li> <li>• Test amplifiers</li> </ul> <b>INDUSTRIAL:</b> <ul style="list-style-type: none"> <li>• Heat pumps</li> <li>• Air conditioners</li> <li>• Smoke detectors</li> <li>• Garage door openers</li> <li>• Controls for printing machines</li> <li>• Fluid level gages</li> </ul> <b>SPACE / MILITARY:</b> <ul style="list-style-type: none"> <li>• Forward traveling wave tube amplifiers (ESA / SCC)</li> <li>• Ignition systems of guided missiles</li> </ul> <b>TELECOM:</b> <ul style="list-style-type: none"> <li>• Cell phones</li> <li>• Telephones</li> <li>• Switching equipment</li> <li>• Line cards</li> </ul> <b>MEDICAL:</b> <ul style="list-style-type: none"> <li>• X-ray equipment</li> </ul>
<b>OMM0102</b>  2.2 mm x 1.1 mm	Jumper	$I \leq 2 \text{ A}$	$R \leq 10 \text{ m}\Omega$	—	—	
<b>SMM0204</b> ●  3.6 mm x 1.4 mm	Standard, Professional	0.25	0.22 Ω ... 10 MΩ	± 0.1 / ± 0.25 / ± 0.5 / ± 1 / ± 5	± 15 / ± 25 / ± 50 / ± 100	
<b>MS1</b> ●  3.6 mm x 1.4 mm	ESA / SCC	0.25	2.2 Ω ... 5.11 MΩ	± 0.1 / ± 0.5 / ± 1	± 15 / ± 25 / ± 50	
<b>SMM0204HF</b> ●  3.6 mm x 1.4 mm	High-Frequency	0.25	10 Ω ... 1.0 kΩ	± 1	± 50	
<b>OMM0204</b>  3.6 mm x 1.4 mm	Jumper	$I \leq 3 \text{ A}$	$R \leq 10 \text{ M}\Omega$	—	—	
<b>PMM0204</b> ●  3.6 mm x 1.4 mm	Precision	0.125	100 Ω ... 221 kΩ	± 0.1 / ± 0.25	± 5 / ± 10 / ± 15 / ± 25 / ± 50	
Not for new designs						
<b>SMM0207</b> ●  5.8 mm x 2.2 mm	Standard, Professional	1.0	0.16 Ω ... 2.21 MΩ	± 0.5 / ± 1 / ± 5	± 50 / ± 100	
<b>OMM0207</b>  5.8 mm x 2.2 mm	Jumper	$I \leq 5 \text{ A}$	$R \leq 10 \text{ M}\Omega$	—	—	
<b>PMM0207</b> ●  5.8 mm x 2.2 mm	Precision	0.4	100 Ω ... 511 kΩ	± 0.1 / ± 0.25 / ± 0.5	± 5 / ± 10 / ± 15 / ± 25 / ± 50	
Not for new designs						
<b>LCM0207SI</b> ●  5.8 mm x 2.2 mm	Fusible, for constant voltage	0.25	0.22 Ω ... 9.1 Ω	± 5	+ 300 ... - 250	

One of the World's Largest Manufacturers of  
**Discrete Semiconductors and Passive Components**

Build **Vishay** into your **Design**

[www.vishay.com](http://www.vishay.com)

**DISCLAIMER** All product specifications and data are subject to change without notice. Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained herein or in any other disclosure relating to any product. Vishay disclaims any and all liability arising out of the use or application of any product described herein or of any information provided herein to the maximum extent permitted by law. The product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein, which apply to these products. No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay. The products shown herein are not designed for use in medical, life-saving, or life-sustaining applications unless otherwise expressly indicated. Customers using or selling Vishay products not expressly indicated for use in such applications do so entirely at their own risk and agree to fully indemnify Vishay for any damages arising or resulting from such use or sale. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications. Product names and markings noted herein may be trademarks of their respective owners.