Fan Vibration Absorber
For Fans from 40mm to 119mm

Features:
• Easy to attach axial fans with patented fastening elements.
• No tools or screws are required.
• Fan vibration absorbers greatly reduce the transmission of vibrations to the panel.
• Housing causing a reduction in the level of noise up to 9 decibels.
• Fan vibrations are absorbed by the flexible sleeves, thereby reducing damage and increasing the life span of the fan.
• Product accessories include screwless, mountable plastic finger guards, filter media, EMI shields, filter guards and rivets.
• The fan vibration sleeves and accessories will fit most fan manufacturer’s products.

Fan Vibration Sleeves
Material : TPE (thermoplastic elastomer) RoHS compliant.
Color : Black.
Hardness : ca 70° Shore A.
# Fan Vibration Absorber

For Fans from 40mm to 119mm

## Specifications

<table>
<thead>
<tr>
<th>Description</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>S</th>
<th>Panel Thickness</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fan Sleeve, 40mm</td>
<td>1.692</td>
<td>11.574</td>
<td>1.496</td>
<td>0.177</td>
<td>0.581</td>
<td>0.207</td>
<td>0.008</td>
<td>0.138</td>
<td>0.0030 to 0.049</td>
<td>0.75 to 1.25mm</td>
<td>MC-QLM-40-20-10</td>
</tr>
<tr>
<td>Fan Sleeve, 60mm</td>
<td>2.520</td>
<td>2.362</td>
<td>2.283</td>
<td>0.197</td>
<td>0.689</td>
<td>0.295</td>
<td>0.012</td>
<td>0.157</td>
<td>0.039</td>
<td>0.049</td>
<td>MC-QLM-60-30-10</td>
</tr>
<tr>
<td>Fan Sleeve, 80mm</td>
<td>3.307</td>
<td>3.150</td>
<td>3.031</td>
<td>0.228</td>
<td>0.728</td>
<td>0.335</td>
<td>0.016</td>
<td>0.157</td>
<td>0.039</td>
<td>0.049</td>
<td>MC-QLM-80-40-10</td>
</tr>
<tr>
<td>Fan Sleeve, 92mm</td>
<td>3.819</td>
<td>3.622</td>
<td>3.504</td>
<td>0.236</td>
<td>0.768</td>
<td>0.374</td>
<td>0.016</td>
<td>0.157</td>
<td>0.039</td>
<td>0.049</td>
<td>MC-QLM-92-40-10</td>
</tr>
<tr>
<td>Fan Sleeve, 119mm</td>
<td>4.921</td>
<td>4.685</td>
<td>4.567</td>
<td>0.315</td>
<td>0.945</td>
<td>0.413</td>
<td>0.020</td>
<td>0.177</td>
<td>0.039</td>
<td>0.049</td>
<td>MC-QLM-119-50-10</td>
</tr>
</tbody>
</table>

**Specifications**

- **Part Number Explanation**
  - **QLM**
  - **Series**: 40
  - **Fan Size B**: 20
  - **Fan Flange Thickness**: 10
  - **Panel Thickness**: 10 = Panel thickness from 0.75 to 1.25mm.

Dimensions: Inches (Millimeters)
Plastic Fan Guards

Material: Plastic.
Color: Black.
Equal Guideline: 2002/95/EG (RoHS compliant).

Specifications

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<tr>
<th>Description</th>
<th>A</th>
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<th>F</th>
<th>G</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Finger Guard, 92mm</td>
<td>3.976</td>
<td>3.248</td>
<td>3.622</td>
<td>1.181</td>
<td>0.594</td>
<td>0.335</td>
<td>0.098</td>
<td>MC-QSG-92-02</td>
</tr>
<tr>
<td>Finger Guard, 119mm</td>
<td>5.039</td>
<td>4.133</td>
<td>4.685</td>
<td>1.654</td>
<td>0.654</td>
<td>0.354</td>
<td>0.118</td>
<td>MC-QSG-119-02</td>
</tr>
</tbody>
</table>

Dimensions: Inches (Millimeteres)

Part Number Explanation

QSG 40 02

Series  Fan Size  Type

Type: 02 = See dimension “A”. Panel hole layout hidden
Only available in 92mm and 119mm sizes.
EMI Filter Shields

Material: High-grade steel (spring V2a)/material No. 1.4310.
Material Thickness: 0.2mm to 0.3mm.

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<th>F</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMI Shield, 40mm</td>
<td>1.654 (42.0)</td>
<td>1.260 (32.0)</td>
<td>R 0.094 (2.4)</td>
<td>0.098 (2.5)</td>
<td>0.118 (3.0)</td>
<td>0.008 (0.2)</td>
<td>MC-QSB-40-01</td>
</tr>
<tr>
<td>EMI Shield, 60mm</td>
<td>2.441 (62.0)</td>
<td>1.969 (50.0)</td>
<td>R 0.106 (2.7)</td>
<td>0.138 (3.5)</td>
<td>0.157 (4.0)</td>
<td>0.157 (4.0)</td>
<td>MC-QSB-60-01</td>
</tr>
<tr>
<td>EMI Shield, 80mm</td>
<td>3.228 (82.0)</td>
<td>2.815 (71.5)</td>
<td>R 0.126 (3.2)</td>
<td>0.157 (4.0)</td>
<td>0.177 (4.5)</td>
<td>0.177 (4.5)</td>
<td>MC-QSB-80-01</td>
</tr>
<tr>
<td>EMI Shield, 92mm</td>
<td>3.700 (94.0)</td>
<td>3.248 (82.5)</td>
<td>R 0.157 (4.0)</td>
<td>0.217 (5.5)</td>
<td>0.012 (0.3)</td>
<td>0.012 (0.3)</td>
<td>MC-QSB-92-01</td>
</tr>
<tr>
<td>EMI Shield, 4119mm</td>
<td>4.764 (121.0)</td>
<td>4.133 (105.0)</td>
<td>R 0.165 (4.2)</td>
<td>0.217 (5.5)</td>
<td>0.012 (0.3)</td>
<td>0.012 (0.3)</td>
<td>MC-QSB-119-01</td>
</tr>
</tbody>
</table>

Dimensions: Inches (Millimeters)

Part Number Explanation

QSB 40 01
Series Fan Size A Type Code
Fan Vibration Absorber
For Fans from 40mm to 119mm

Filter Media
Material: Foam dust filter FL100.
Filter Class: G2 DIN EN 779.
Material Thickness: ca. 5mm.

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<tbody>
<tr>
<td>Fan Filter, 40mm</td>
<td>1.575 (40.0)</td>
<td>1.260 (32.0)</td>
<td>0.118 (3.0)</td>
<td>0.197 (5.0)</td>
<td>MC-QF-40-01</td>
</tr>
<tr>
<td>Fan Filter, 60mm</td>
<td>2.362 (60.0)</td>
<td>1.969 (50.0)</td>
<td>0.138 (3.5)</td>
<td></td>
<td>MC-QF-60-01</td>
</tr>
<tr>
<td>Fan Filter, 80mm</td>
<td>3.150 (80.0)</td>
<td>2.815 (71.5)</td>
<td>0.157 (4.0)</td>
<td></td>
<td>MC-QF-80-01</td>
</tr>
<tr>
<td>Fan Filter, 92mm</td>
<td>3.622 (92.0)</td>
<td>3.248 (82.5)</td>
<td>0.177 (4.5)</td>
<td></td>
<td>MC-QF-92-01</td>
</tr>
<tr>
<td>Fan Filter, 119mm</td>
<td>4.685 (119.0)</td>
<td>4.133 (105.0)</td>
<td>0.217 (5.5)</td>
<td></td>
<td>MC-QF-119-01</td>
</tr>
</tbody>
</table>

Part Number Explanation

QF 40 01
Series Fan Size A Type Code

Dimensions: Inches (Millimeteres)
Fan Vibration Absorber
For Fans from 40mm to 119mm

Rivets
Material: Plastic.
Color: Black.
Equal Guideline: 2002/95/EG (RoHS compliant).

Specifications

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<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>Fan Fasteners, Rubber PK10</td>
<td>MC-QF-40-01</td>
</tr>
</tbody>
</table>
Fan Vibration Absorber
For Fans from 40mm to 119mm

Notes:

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