

# 656 Series

## Molded Base PC Mount Fuse Block For 5×20mm Fuses



### Web Resources



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### Agency Approval

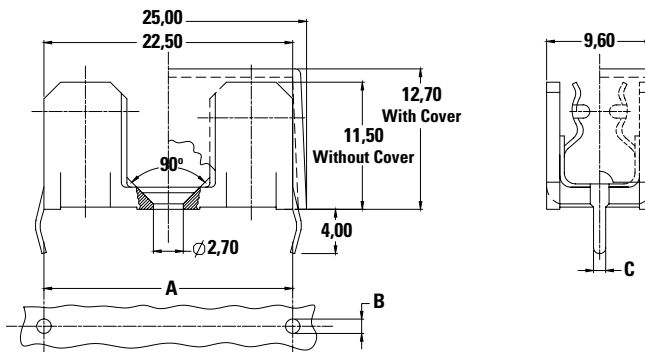
| Agency | Agency File Number |
|--------|--------------------|
|        | 40056151           |
|        | E70164             |

### Product Characteristics

|                           |  |
|---------------------------|--|
| Compatible Fuse Size      | 5×20mm   |
| Materials                 | <b>Holder:</b> Black Thermoplastic UL94 V-0<br><b>Metal Parts:</b> Tin plated copper alloy   |
| Electrical Data           | <b>Rated Voltage:</b><br>VDE 500 VAC<br>UL 500 VAC/DC<br><b>Rated Current:</b> 30 A (UL)/10 A (VDE)<br><b>Rated Power Acceptance</b> (at ambient air temp 23 °C):<br>- 4 W without cover<br>- 4 W with 660 cover<br>- 2.5 W with 659 cover |
| Mounting                  | 656: Solder pins 0.4mm×1.1mm<br>Ø 2.7mm screw hole may be used optionally  |
| Operating Temperature     | -40 °C to +85 °C   |
| Climatic Category         | 40/085/21 according to IEC 60068-1   |
| Stock Conditions          | 0 °C to 60 °C, at max. 70% relative humidity   |
| Vibration Resistance      | According to IEC 60068-2-6, Test Fc  |
| Contact Resistance        | <5 mΩ  |
| Dielectric Strength       | > 3 kV, 50 Hz, 1 min.  |
| Impulse withstand Voltage | > 4 kV between life parts  |
| Insulation Resistance     | (500 V DC/1 min): >10 MΩ between live parts of different potentials<br>245 °C/3 sec. according to IEC 60068-2-20, Test Ta, method 1  |
| Solderability             | 260 °C/10 sec. according to IEC 60068-2-20, test Tb method 1   |
| Soldering Heat Resistance | 260 °C/10 sec. according to IEC 60068-2-20, test Tb method 1   |
| Minimum Cross Section     | Conducting path - 0.2 mm <sup>2</sup>  |
| Torque/fixing screw       | Max. 0.3 Nm  |

**Note:** If used with covers, refer to [Fuseology](#) for information on proper fuse block re-rating.

### Dimensions



| Part Number | "A" Dimension | "B" Dimension | "C" Dimension |
|-------------|---------------|---------------|---------------|
| 65600001009 | 22.5          | 1,30 + 0,1/-0 | 1,10          |
| 65600001409 | 25.0          | 1,30 + 0,1/-0 | 1,10          |
| 65600201009 | 22.5          | 2,50 + 0,1/-0 | 2,30          |
| 65600301009 | 22.5          | 2,50 + 0,1/-0 | 2,30          |

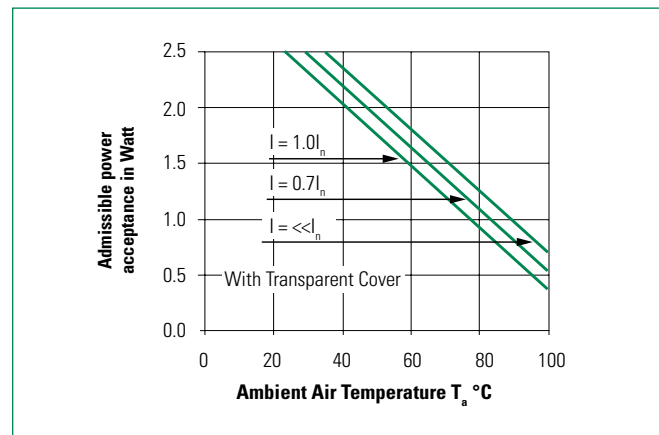
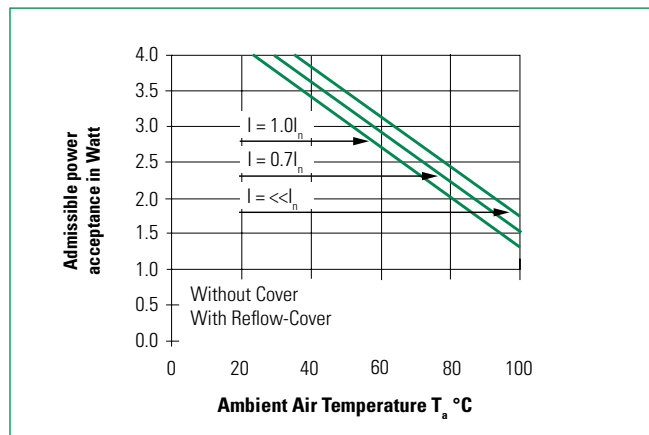
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## Molded Base PC Mount Fuse Block For 5×20mm Fuses

### Ordering Information

| Part Number | Description   | Packaging | Pieces | UL  | VDE |
|-------------|---|-----------|--------|-----|-----|
| 65600001009 | Fuse Block - "A" dimension 22.5mm 16 AMP  | Bulk Pack | 100    | 16A | 10A |
| 65600201009 | Fuse Block - "A" dimension 22.5mm 20 AMP  | Bulk Pack | 100    | 20A | N/A |
| 65600301009 | Fuse Block - "A" dimension 22.5mm 30 AMP  | Bulk Pack | 100    | 30A | N/A |
| 65600001409 | Fuse Block - "A" dimension 25mm 16 AMP  | Bulk Pack | 100    | 16A | 10A |
| 65900000009 | Fuse Holder Cover - Transparent plastic   | Bulk Pack | 100    | N/A | N/A |
| 66000001009 | Fuse Holder Cover - Opaque plastic, suitable for infrared (IR) reflow soldering process | Bulk Pack | 100    | N/A | N/A |

### Re-rating Curves



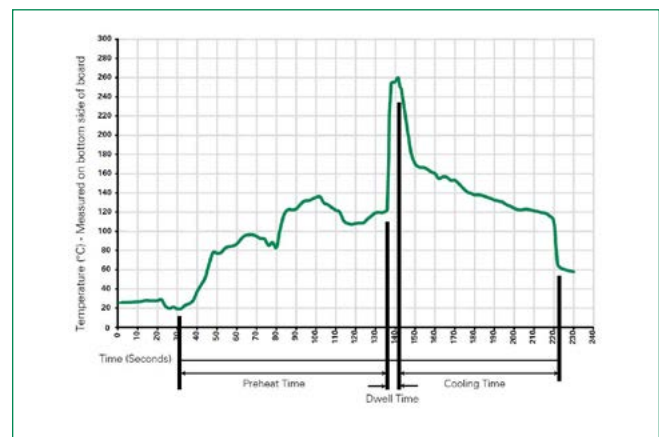
### Soldering Parameters—Wave Soldering

| Wave Parameter  | Lead-Free Recommendation          |
|---|-----------------------------------|
| <b>Preheat:</b><br>(Depends on Flex Activation Temperature) | (Typical Industry Recommendation) |
| Temperature Minimum   | 100 °C                            |
| Temperature Maximum   | 150 °C                            |
| Preheat Time  | 60–180 seconds                    |
| <b>Solder Pot Temperature</b>                               | 260 °C Maximum                    |
| <b>Solder Dwell Time</b>                                    | 2–5 seconds                       |

#### Recommended Hand-Solder Parameters:

Solder Iron Temperature: 350 °C +/- 5 °C

Heating Time: 5 seconds max.



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