

EEE-HA1E221AP



**Part Number:** [EEE-HA1E221AP](#)

**Manufacturer:** [Panasonic](#)

**Description:** CAP ALUM 220UF 20% 25V SMD

**Data sheet:**  [HA Series Type V, Suffix A](#)  
 [Aluminum Elect Caps, Part Number System](#)

**RoHs Status:** Lead free / RoHS Compliant

**Ship From:** Hong Kong

**Shipment Way:** DHL/Fedex/TNT/UPS/EMS

Images are for reference only.  
See Product Specifications for product details.  
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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                               |                                    |                                                                                                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|------------------------------------|-------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                    | EEE-HA1E221AP                                                                 | Manufacturer                       | <a href="#">Panasonic</a>                                                                             |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                    | CAP ALUM 220UF 20% 25V SMD                                                    | Lead Free Status / RoHS Status     | Lead free / RoHS Compliant                                                                            |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                             | 358945 pcs                                                                    | Data sheet                         | <a href="#">HA Series Type V, Suffix A</a><br><a href="#">Aluminum Elect Caps, Part Number System</a> |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                       | <a href="#">Capacitors</a>                                                    | Voltage - Rated                    | 25V                                                                                                   |
| Tolerance                                                                                                                                                                                                                                                                                                                                                                                                                                      | ±20%                                                                          | Surface Mount Land Size            | 0.406" L x 0.406" W (10.30mm x 10.30mm)                                                               |
| Size / Dimension                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.394" Dia (10.00mm)                                                          | Series                             | HA                                                                                                    |
| Ripple Current @ Low Frequency                                                                                                                                                                                                                                                                                                                                                                                                                 | 190mA @ 120Hz                                                                 | Ripple Current @ High Frequency    | 323mA @ 10kHz                                                                                         |
| Ratings                                                                                                                                                                                                                                                                                                                                                                                                                                        | AEC-Q200                                                                      | Polarization                       | Polar                                                                                                 |
| Packaging                                                                                                                                                                                                                                                                                                                                                                                                                                      | Tape & Reel (TR)                                                              | Package / Case                     | Radial, Can - SMD                                                                                     |
| Other Names                                                                                                                                                                                                                                                                                                                                                                                                                                    | EEEHA1E221AP<br>PCE4663TR                                                     | Operating Temperature              | -40°C ~ 105°C                                                                                         |
| Mounting Type                                                                                                                                                                                                                                                                                                                                                                                                                                  | Surface Mount                                                                 | Moisture Sensitivity Level (MSL)   | 1 (Unlimited)                                                                                         |
| Manufacturer Standard Lead Time                                                                                                                                                                                                                                                                                                                                                                                                                | 19 Weeks                                                                      | Lifetime @ Temp.                   | 1000 Hrs @ 105°C                                                                                      |
| Lead Spacing                                                                                                                                                                                                                                                                                                                                                                                                                                   | -                                                                             | Lead Free Status / RoHS Status     | Lead free / RoHS Compliant                                                                            |
| Height - Seated (Max)                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.402" (10.20mm)                                                              | ESR (Equivalent Series Resistance) | -                                                                                                     |
| Detailed Description                                                                                                                                                                                                                                                                                                                                                                                                                           | 220µF 25V Aluminum Electrolytic Capacitors Radial, Can - SMD 1000 Hrs @ 105°C | Capacitance                        | 220µF                                                                                                 |
| Applications                                                                                                                                                                                                                                                                                                                                                                                                                                   | Automotive                                                                    |                                    |                                                                                                       |
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|  | Part#: <a href="#">EEE-HA1E470P</a><br>Description: CAP ALUM 47UF 20% 25V SMD   | Manufacturers: <a href="#">Panasonic</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EEE-HA1E220WR</a><br>Description: CAP ALUM 22UF 20% 25V SMD  | Manufacturers: <a href="#">Panasonic</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EEE-HA1E331UP</a><br>Description: CAP ALUM 330UF 20% 25V SMD | Manufacturers: <a href="#">Panasonic</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EEE-HA1E101AP</a><br>Description: CAP ALUM 100UF 20% 25V SMD | Manufacturers: <a href="#">Panasonic</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EEE-HA1E220AP</a><br>Description: CAP ALUM 22UF 20% 25V SMD  | Manufacturers: <a href="#">Panasonic</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EEE-HA1E331AP</a><br>Description: CAP ALUM 330UF 20% 25V SMD | Manufacturers: <a href="#">Panasonic</a> | <a href="#">RFQ</a> |
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|  | Part#: <a href="#">EEE-HA1E330P</a><br>Description: CAP ALUM 33UF 20% 25V SMD   | Manufacturers: <a href="#">Panasonic</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EEE-HA1E331P</a><br>Description: CAP ALUM 330UF 20% 25V SMD  | Manufacturers: <a href="#">Panasonic</a> | <a href="#">RFQ</a> |
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|  | Part#: <a href="#">EEE-HA1E100R</a><br>Description: CAP ALUM 10UF 20% 25V SMD   | Manufacturers: <a href="#">Panasonic</a> | <a href="#">RFQ</a> |

Related keywords for EEE-HA1E221AP

|                                                 |                                             |                                                      |                                               |
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