

EEE-HA1C220AR



**Part Number:** [EEE-HA1C220AR](#)

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

**Description:** CAP ALUM 22UF 20% 16V 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-HA1C220AR                                                                | Manufacturer                       | <a href="#">Panasonic</a>                                                                             |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                    | CAP ALUM 22UF 20% 16V SMD                                                    | Lead Free Status / RoHS Status     | Lead free / RoHS Compliant                                                                            |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                             | 759822 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                    | 16V                                                                                                   |
| Tolerance                                                                                                                                                                                                                                                                                                                                                                                                                                      | ±20%                                                                         | Surface Mount Land Size            | 0.209" L x 0.209" W (5.30mm x 5.30mm)                                                                 |
| Size / Dimension                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.197" Dia (5.00mm)                                                          | Series                             | HA                                                                                                    |
| Ripple Current @ Low Frequency                                                                                                                                                                                                                                                                                                                                                                                                                 | 39mA @ 120Hz                                                                 | Ripple Current @ High Frequency    | 66.3mA @ 10kHz                                                                                        |
| Ratings                                                                                                                                                                                                                                                                                                                                                                                                                                        | AEC-Q200                                                                     | Polarization                       | Polar                                                                                                 |
| Packaging                                                                                                                                                                                                                                                                                                                                                                                                                                      | Tape & Reel (TR)                                                             | Package / Case                     | Radial, Can - SMD                                                                                     |
| Other Names                                                                                                                                                                                                                                                                                                                                                                                                                                    | EEEHA1C220AR<br>PCE4655TR                                                    | 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)                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.213" (5.40mm)                                                              | ESR (Equivalent Series Resistance) | -                                                                                                     |
| Detailed Description                                                                                                                                                                                                                                                                                                                                                                                                                           | 22µF 16V Aluminum Electrolytic Capacitors Radial, Can - SMD 1000 Hrs @ 105°C | Capacitance                        | 22µF                                                                                                  |
| Applications                                                                                                                                                                                                                                                                                                                                                                                                                                   | Automotive                                                                   |                                    |                                                                                                       |
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| RELATED PRODUCTS                                                                   |                                                                                 |                                          |                     |
|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|------------------------------------------|---------------------|
|  | Part#: <a href="#">EEE-HA1C100R</a><br>Description: CAP ALUM 10UF 20% 16V SMD   | Manufacturers: <a href="#">Panasonic</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EEE-HA1C221AP</a><br>Description: CAP ALUM 220UF 20% 16V SMD | Manufacturers: <a href="#">Panasonic</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EEE-HA1C331UP</a><br>Description: CAP ALUM 330UF 20% 16V SMD | Manufacturers: <a href="#">Panasonic</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EEE-HA1A471AP</a><br>Description: CAP ALUM 470UF 20% 10V SMD | Manufacturers: <a href="#">Panasonic</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EEE-HA1A470WR</a><br>Description: CAP ALUM 47UF 20% 10V SMD  | Manufacturers: <a href="#">Panasonic</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EEE-HA1C221XP</a><br>Description: CAP ALUM 220UF 20% 16V SMD | Manufacturers: <a href="#">Panasonic</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EEE-HA1A330WR</a><br>Description: CAP ALUM 33UF 20% 10V SMD  | Manufacturers: <a href="#">Panasonic</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EEE-HA1C220R</a><br>Description: CAP ALUM 22UF 20% 16V SMD   | Manufacturers: <a href="#">Panasonic</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EEE-HA1C220WR</a><br>Description: CAP ALUM 22UF 20% 16V SMD  | Manufacturers: <a href="#">Panasonic</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EEE-HA1A330AR</a><br>Description: CAP ALUM 33UF 20% 10V SMD  | Manufacturers: <a href="#">Panasonic</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EEE-HA1C330WR</a><br>Description: CAP ALUM 33UF 20% 16V SMD  | Manufacturers: <a href="#">Panasonic</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EEE-HA1A471UP</a><br>Description: CAP ALUM 470UF 20% 10V SMD | Manufacturers: <a href="#">Panasonic</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EEE-HA1C331AP</a><br>Description: CAP ALUM 330UF 20% 16V SMD | Manufacturers: <a href="#">Panasonic</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EEE-HA1A471P</a><br>Description: CAP ALUM 470UF 20% 10V SMD  | Manufacturers: <a href="#">Panasonic</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EEE-HA1C221P</a><br>Description: CAP ALUM 220UF 20% 16V SMD  | Manufacturers: <a href="#">Panasonic</a> | <a href="#">RFQ</a> |
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|  | Part#: <a href="#">EEE-HA1C100AR</a><br>Description: CAP ALUM 10UF 20% 16V SMD  | Manufacturers: <a href="#">Panasonic</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EEE-HA1C101WP</a><br>Description: CAP ALUM 100UF 20% 16V SMD | Manufacturers: <a href="#">Panasonic</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EEE-HA1C331P</a><br>Description: CAP ALUM 330UF 20% 16V SMD  | Manufacturers: <a href="#">Panasonic</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EEE-HA1A330R</a><br>Description: CAP ALUM 33UF 20% 10V SMD   | Manufacturers: <a href="#">Panasonic</a> | <a href="#">RFQ</a> |

| Related keywords for EEE-HA1C220AR                               |                                             |                                                      |                                                     |
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| EEE-HA1C220AR download datasheet                                 | EEE-HA1C220AR datasheet                     | EEE-HA1C220AR stock                                  | buy EEE-HA1C220AR                                   |
| Panasonic EEE-HA1C220AR                                          | Panasonic - Consumer Division EEE-HA1C220AR | Panasonic - Consumer Electronics Corp. EEE-HA1C220AR | Panasonic Battery Group EEE-HA1C220AR               |
|                                                                  |                                             |                                                      | Panasonic Electric Works - ACSD EEE-HA1C220AR       |
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| Panasonic Semiconductor EEE-HA1C220AR                            |                                             |                                                      |                                                     |

