

EEE-1CS100SR Datasheet



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| | |
|------------------------------|---|
| DiGi Electronics Part Number | EEE-1CS100SR-DG |
| Manufacturer | Panasonic Electronic Components |
| Manufacturer Product Number | EEE-1CS100SR |
| Description | CAP ALUM 10UF 20% 16V SMD |
| Detailed Description | 10 μ F 16 V Aluminum Electrolytic Capacitors Radial , Can - SMD 1000 Hrs @ 85°C |

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Purchase and inquiry

Manufacturer Product Number:

EEE-1CS100SR

Series:

S

Capacitance:10 μ F**Voltage - Rated:**

16 V

Lifetime @ Temp.:

1000 Hrs @ 85°C

Polarization:

Polar

Applications:

Automotive

Ripple Current @ High Frequency:

34 mA @ 10 kHz

Size / Dimension:

0.118" Dia (3.00mm)

Surface Mount Land Size:

0.130" L x 0.130" W (3.30mm x 3.30mm)

Package / Case:

Radial, Can - SMD

Manufacturer:

Panasonic Electronic Components

Product Status:

Obsolete

Tolerance: \pm 20%**ESR (Equivalent Series Resistance):**

-

Operating Temperature:

-40°C ~ 85°C

Ratings:

AEC-Q200

Ripple Current @ Low Frequency:

28 mA @ 120 Hz

Lead Spacing:

-

Height - Seated (Max):

0.217" (5.50mm)

Mounting Type:

Surface Mount

Base Product Number:

EEE-1CS

Environmental & Export classification

Moisture Sensitivity Level (MSL):

1 (Unlimited)

ECCN:

EAR99

REACH Status:

REACH Unaffected

HTSUS:

8532.22.0020

Surface Mount Type

Series: **S** Type: **V**



■ Features

- Endurance: 85 °C 2000 h
- Vibration-proof product is available upon request. (φ8 mm and larger)
- RoHS directive compliant

■ Specifications

| | | | | | | | | | | | |
|------------------------------------|--|---------------------------------|------------------|----|------------------|----|----|----|----|-----|-----------------------------|
| Category Temp. Range | -40 °C to +85 °C | | | | | | | | | | |
| Rated W.V. Range | 4 V.DC to 100 V.DC | | | | | | | | | | |
| Nominal Cap. Range | 1 μF to 1500 μF | | | | | | | | | | |
| Capacitance Tolerance | ±20 % (120 Hz/+20 °C) | | | | | | | | | | |
| DC Leakage Current | I ≤ 0.01 CV or 3 (μA) (Bi-Polar I ≤ 0.02 CV or 6 (μA) After 2 minutes (Whichever is greater) | | | | | | | | | | |
| tan δ | Please see the attached standard products list | | | | | | | | | | |
| Characteristics at Low Temperature | W.V. (V) | 4 | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 100 | (Impedance ratio at 120 Hz) |
| | Z(-25 °C)/Z(+20 °C) | 7 | 4 | 3 | 2 | 2 | 2 | 2 | 3 | 3 | |
| | Z(-40 °C)/Z(+20 °C) | 15 | 8 | 6 | 4 | 4 | 3 | 3 | 4 | 4 | |
| Endurance | After applying rated working voltage for 2000 hours (Bi-polar:1000 hours for each polarity) at +85 °C ±2 °C and then being stabilized at +20 °C, Capacitors shall meet the following limits. | | | | | | | | | | |
| | Capacitance change | ±20 % of initial measured value | | | | | | | | | |
| | | Size code | Rated W.V. | | Cap. change | | | | | | |
| | | A(φ3) | 4 W.V to 50 W.V | | 1000 hours ±30 % | | | | | | |
| | | B(φ4) to D, D8(φ6.3) | 4 W.V | | | | | | | | |
| ≤ D(φ6.3) Miniature | 6.3 W.V | | 1000 hours ±20 % | | | | | | | | |
| | ≥ 10 W.V | | | | | | | | | | |
| tan δ | ≤ 200 % initial specified value | | | | | | | | | | |
| DC leakage current | ≤ initial specified value | | | | | | | | | | |
| Shelf Life | After storage for 1000 hours at +85 °C±2 °C with no voltage applied and then being stabilized at +20 °C, capacitors shall meet the limits specified in Endurance. (With voltage treatment) | | | | | | | | | | |
| | After reflow soldering and then being stabilized at +20 °C, capacitors shall meet the following limits. | | | | | | | | | | |
| Resistance to Soldering Heat | After reflow soldering and then being stabilized at +20 °C, capacitors shall meet the following limits. | | | | | | | | | | |
| | Capacitance change | ±10 % of initial measured value | | | | | | | | | |
| | tan δ | ≤ initial specified value | | | | | | | | | |
| | DC leakage current | ≤ initial specified value | | | | | | | | | |

■ Frequency correction factor for ripple current

| | Frequency (Hz) | | | |
|-------------------|----------------|------|------|---------|
| | 50, 60 | 120 | 1 k | 10 k to |
| Correction factor | 0.70 | 1.00 | 1.30 | 1.70 |

■ Marking

Example:4V 33 μF (Polarized)
Marking color: BLACK

Negative polarity marking (-)
(No marking for the bi-polar)

Capacitance (μF)
Series identification (S) or (A)
(A size=Lot number)

Mark for Lead-Free Products
Black Dot (Square)

Rated voltage Mark (V.DC)
(6=6.3 V.DC)

Lot number
(No marking=A size)

■ Dimensions in mm (not to scale)

(Unit : mm)

Pressure Relief (φ0.3 and larger)

() Reference size

| Size code | D | L | A, B | H | I | W | P | K |
|-----------|------|-------------------------------------|------|-----------|-----|----------|-----|--|
| A | 3.0 | 5.4 ^{+0.1} _{-0.2} | 3.3 | 4.5 max. | 1.5 | 0.55±0.1 | 0.6 | 0.35 ^{+0.15} _{-0.20} |
| B | 4.0 | 5.4 ^{+0.1} _{-0.2} | 4.3 | 5.5 max. | 1.8 | 0.65±0.1 | 1.0 | 0.35 ^{+0.15} _{-0.20} |
| C | 5.0 | 5.4 ^{+0.1} _{-0.2} | 5.3 | 6.5 max. | 2.2 | 0.65±0.1 | 1.5 | 0.35 ^{+0.15} _{-0.20} |
| D | 6.3 | 5.4 ^{+0.1} _{-0.2} | 6.6 | 7.8 max. | 2.6 | 0.65±0.1 | 1.8 | 0.35 ^{+0.15} _{-0.20} |
| D8 | 6.3 | 7.7±0.3 | 6.6 | 7.8 max. | 2.6 | 0.65±0.1 | 1.8 | 0.35 ^{+0.15} _{-0.20} |
| E | 8.0 | 6.2±0.3 | 8.3 | 9.5 max. | 3.4 | 0.65±0.1 | 2.2 | 0.35 ^{+0.15} _{-0.20} |
| F | 8.0 | 10.2±0.3 | 8.3 | 10.0 max. | 3.4 | 0.90±0.2 | 3.1 | 0.70±0.20 |
| G | 10.0 | 10.2±0.3 | 10.3 | 12.0 max. | 3.5 | 0.90±0.2 | 4.6 | 0.70±0.20 |

Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and/or use. Should a safety concern arise regarding this product, please be sure to contact us immediately.

■ Standard Products

| W.V. | Cap. (±20 %) | Case size | | | Specification | | | Part No. (RoHS:compliant) | Reflow | Min. Packaging Q'ty |
|------|-----------------|-----------|--------|---------------|---|--------------------------------------|-------------|------------------------------|--------|------------------------|
| | | Dia. | Length | *Size Code | Ripple Current (120 Hz (+85 °C) (mA r.m.s.) | tan δ (120 Hz) (+20 °C) | Endurance | | | Taping |
| (V) | (μ F) | (mm) | (mm) | | | (hours) | | | (pcs) | |
| 4 | 22 | 3 | 5.4 | A | 19 | 0.37 | 1000 | EEE0GS220SR ** | (1) | 2000 |
| | 33 | 4 | 5.4 | B | 26 | 0.35 | 1000 | EEE0GA330SR | (1) | 2000 |
| | 47 | 4 | 5.4 | B | 34 | 0.35 | 1000 | EEE0GA470SR | (1) | 2000 |
| | 100 | 5 | 5.4 | C | 61 | 0.35 | 1000 | EEE0GA101SR | (1) | 1000 |
| | 220 | 6.3 | 5.4 | D | 82 | 0.35 | 1000 | EEE0GA221SP | (1) | 1000 |
| | 330 | 6.3 | 5.4 | (D) | 80 | 0.50 | 1000 | EEE0GA331WP | (1) | 1000 |
| | 470 | 6.3 | 7.7 | D8 | 200 | 0.35 | 1000 | EEE0GA471XP | (1) | 900 |
| 6.3 | 22 | 3 | 5.4 | (A) | 20 | 0.35 | 1000 | EEE0JS220WR ** | (1) | 2000 |
| | | 4 | 5.4 | B | 29 | 0.26 | 2000 | EEE0JA220SR | (1) | 2000 |
| | 33 | 4 | 5.4 | (B) | 22 | 0.35 | 1000 | EEE0JA330WR | (1) | 2000 |
| | | 4 | 5.4 | (B) | 36 | 0.35 | 1000 | EEE0JA470WR | (1) | 2000 |
| | 47 | 5 | 5.4 | C | 46 | 0.26 | 2000 | EEE0JA470SR | (1) | 1000 |
| | | 5 | 5.4 | (C) | 47 | 0.35 | 1000 | EEE0JA101WR | (1) | 1000 |
| | 100 | 6.3 | 5.4 | D | 71 | 0.26 | 2000 | EEE0JA101SP | (1) | 1000 |
| | | 6.3 | 5.4 | (D) | 74 | 0.35 | 1000 | EEE0JA221WP | (1) | 1000 |
| | 330 | 6.3 | 7.7 | D8 | 188 | 0.26 | 2000 | EEE0JA331XP | (1) | 900 |
| | | 8 | 6.2 | E | 300 | 0.35 | 2000 | EEE0JA331P | (2) | 1000 |
| 470 | 8 | 10.2 | F | 380 | 0.35 | 2000 | EEE0JA471P | (2) | 500 | |
| | 8 | 10.2 | (F) | 500 | 0.35 | 2000 | EEE0JA102UP | (2) | 500 | |
| 1000 | 10 | 10.2 | G | 700 | 0.35 | 2000 | EEE0JA102P | (2) | 500 | |
| | 10 | 10.2 | G | 750 | 0.35 | 2000 | EEE0JA152P | (2) | 500 | |
| 10 | 22 | 4 | 5.4 | (B) | 28 | 0.30 | 1000 | EEE1AA220WR | (1) | 2000 |
| | | 4 | 5.4 | (B) | 29 | 0.30 | 1000 | EEE1AA330WR | (1) | 2000 |
| | 33 | 5 | 5.4 | C | 43 | 0.20 | 2000 | EEE1AA330SR | (1) | 1000 |
| | | 5 | 5.4 | (C) | 43 | 0.30 | 1000 | EEE1AA470WR | (1) | 1000 |
| | 100 | 5 | 5.4 | (C) | 50 | 0.30 | 1000 | EEE1AA101WR | (1) | 1000 |
| | | 6.3 | 5.4 | D | 70 | 0.26 | 2000 | EEE1AA101SP | (1) | 1000 |
| | 220 | 6.3 | 7.7 | D8 | 173 | 0.20 | 2000 | EEE1AA221XP | (1) | 900 |
| | | 8 | 6.2 | E | 250 | 0.26 | 2000 | EEE1AA221P | (2) | 1000 |
| | 330 | 8 | 10.2 | F | 390 | 0.26 | 2000 | EEE1AA331P | (2) | 500 |
| | | 8 | 10.2 | (F) | 390 | 0.26 | 2000 | EEE1AA471UP | (2) | 500 |
| 470 | 10 | 10.2 | G | 400 | 0.26 | 2000 | EEE1AA471P | (2) | 500 | |
| | 10 | 10.2 | G | 580 | 0.26 | 2000 | EEE1AA102P | (2) | 500 | |
| 16 | 10 | 3 | 5.4 | A | 20 | 0.18 | 1000 | EEE1CS100SR ** | (1) | 2000 |
| | | 4 | 5.4 | B | 28 | 0.16 | 2000 | EEE1CA100SR | (1) | 2000 |
| | 22 | 4 | 5.4 | (B) | 28 | 0.26 | 1000 | EEE1CA220WR | (1) | 2000 |
| | | 5 | 5.4 | C | 39 | 0.16 | 2000 | EEE1CA220SR | (1) | 1000 |
| | 33 | 5 | 5.4 | (C) | 35 | 0.26 | 1000 | EEE1CA330WR | (1) | 1000 |
| | | 5 | 5.4 | (C) | 39 | 0.26 | 1000 | EEE1CA470WR | (1) | 1000 |
| | 47 | 6.3 | 5.4 | D | 70 | 0.16 | 2000 | EEE1CA470SP | (1) | 1000 |
| | | 6.3 | 5.4 | (D) | 70 | 0.26 | 1000 | EEE1CA101WP | (1) | 1000 |
| | 100 | 8 | 6.2 | E | 200 | 0.20 | 2000 | EEE1CA101P | (2) | 1000 |
| | | 6.3 | 7.7 | D8 | 162 | 0.16 | 2000 | EEE1CA221XP | (1) | 900 |
| | 220 | 8 | 10.2 | F | 280 | 0.20 | 2000 | EEE1CA221P | (2) | 500 |
| | | 8 | 10.2 | (F) | 320 | 0.20 | 2000 | EEE1CA331UP | (2) | 500 |
| | 330 | 10 | 10.2 | G | 380 | 0.20 | 2000 | EEE1CA331P | (2) | 500 |
| | | 8 | 10.2 | (F) | 350 | 0.20 | 2000 | EEE1CA471UP | (2) | 500 |
| 470 | 10 | 10.2 | G | 420 | 0.20 | 2000 | EEE1CA471P | (2) | 500 | |

* Size code():Miniaturization product

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· Please refer to the page of "Reflow Profile" and "The Taping Dimensions".

· When requesting vibration-proof product, please put the last "V" instead to "P"

Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and/or use.
Should a safety concern arise regarding this product, please be sure to contact us immediately.

01 Sep. 2013

■ Standard Products

| W.V. (V) | Cap. (±20 %) (μF) | Case size | | | Specification | | | Part No. (RoHS:compliant) | Reflow | Min. Packaging Q'ty |
|-------------|-------------------------|--------------|----------------|---------------|--|-------------------------------|----------------------|------------------------------|--------|------------------------|
| | | Dia. (mm) | Length (mm) | *Size Code | Ripple Current (120 Hz) (+85 °C) (mA r.m.s.) | tan δ (120 Hz) (+20 °C) | Endurance (hours) | | | Taping (pcs) |
| 25 | 4.7 | 3 | 5.4 | A | 12 | 0.16 | 1000 | EEE1ES4R7SR ** | (1) | 2000 |
| | | 4 | 5.4 | B | 22 | 0.14 | 2000 | EEE1EA4R7SR | (1) | 2000 |
| | 10 | 4 | 5.4 | (B) | 22 | 0.20 | 1000 | EEE1EA100WR | (1) | 2000 |
| | | 5 | 5.4 | C | 28 | 0.14 | 2000 | EEE1EA100SR | (1) | 1000 |
| | 22 | 5 | 5.4 | (C) | 35 | 0.20 | 1000 | EEE1EA220WR | (1) | 1000 |
| | | 6.3 | 5.4 | D | 55 | 0.14 | 2000 | EEE1EA220SP | (1) | 1000 |
| | 33 | 5 | 5.4 | (C) | 42 | 0.20 | 1000 | EEE1EA330WR | (1) | 1000 |
| | | 6.3 | 5.4 | D | 65 | 0.14 | 2000 | EEE1EA330SP | (1) | 1000 |
| | 47 | 6.3 | 5.4 | (D) | 70 | 0.20 | 1000 | EEE1EA470WP | (1) | 1000 |
| | 100 | 6.3 | 7.7 | D8 | 143 | 0.14 | 2000 | EEE1EA101XP | (1) | 900 |
| | | 8 | 6.2 | (E) | 91 | 0.16 | 2000 | EEE1EA101UP | (2) | 1000 |
| | | 8 | 10.2 | F | 180 | 0.16 | 2000 | EEE1EA101P | (2) | 500 |
| | 220 | 8 | 10.2 | (F) | 230 | 0.16 | 2000 | EEE1EA221UP | (2) | 500 |
| | | 10.0 | 10.2 | G | 310 | 0.16 | 2000 | EEE1EA221P | (2) | 500 |
| | 330 | 8 | 10.2 | (F) | 270 | 0.16 | 2000 | EEE1EA331UP | (2) | 500 |
| 10 | | 10.2 | G | 340 | 0.16 | 2000 | EEE1EA331P | (2) | 500 | |
| 470 | 10 | 10.2 | G | 380 | 0.16 | 2000 | EEE1EA471P | (2) | 500 | |
| 35 | 2.2 | 3 | 5.4 | A | 8 | 0.14 | 1000 | EEE1VS2R2SR ** | (1) | 2000 |
| | 3.3 | 3 | 5.4 | A | 10 | 0.14 | 1000 | EEE1VS3R3SR ** | (1) | 2000 |
| | 4.7 | 4 | 5.4 | B | 22 | 0.12 | 2000 | EEE1VA4R7SR | (1) | 2000 |
| | 10 | 4 | 5.4 | (B) | 22 | 0.16 | 1000 | EEE1VA100WR | (1) | 2000 |
| | | 5 | 5.4 | C | 30 | 0.12 | 2000 | EEE1VA100SR | (1) | 1000 |
| | 22 | 5 | 5.4 | (C) | 36 | 0.16 | 1000 | EEE1VA220WR | (1) | 1000 |
| | | 6.3 | 5.4 | D | 60 | 0.12 | 2000 | EEE1VA220SP | (1) | 1000 |
| | 33 | 6.3 | 5.4 | (D) | 60 | 0.16 | 1000 | EEE1VA330WP | (1) | 1000 |
| | | 8 | 6.2 | E | 130 | 0.14 | 2000 | EEE1VA330P | (2) | 1000 |
| | 47 | 6.3 | 5.4 | (D) | 70 | 0.16 | 1000 | EEE1VA470WP | (1) | 1000 |
| | | 8 | 6.2 | E | 165 | 0.14 | 2000 | EEE1VA470P | (2) | 1000 |
| | 100 | 6.3 | 7.7 | D8 | 132 | 0.12 | 2000 | EEE1VA101XP | (1) | 900 |
| | | 8 | 10.2 | (F) | 140 | 0.14 | 2000 | EEE1VA101UP | (2) | 500 |
| | | 10 | 10.2 | G | 210 | 0.14 | 2000 | EEE1VA101P | (2) | 500 |
| | 220 | 8 | 10.2 | (F) | 200 | 0.14 | 2000 | EEE1VA221UP | (2) | 500 |
| 10 | | 10.2 | G | 310 | 0.14 | 2000 | EEE1VA221P | (2) | 500 | |
| 330 | 10 | 10.2 | G | 350 | 0.14 | 2000 | EEE1VA331P | (2) | 500 | |

* Size code():Miniaturization product

** Please kindly accept last shipment : 31/Mar/2014

· Please refer to the page of "Reflow Profile" and "The Taping Dimensions".

· When requesting vibration-proof product, please put the last "V" instead to "P"

■ Standard Products

| W.V. (V) | Cap. (±20 %) (μF) | Case size | | | Specification | | | Part No. (RoHS:compliant) | Reflow | Min. Packaging Q'ty |
|-------------|-------------------------|--------------|----------------|---------------|--|-------------------------------|----------------------|------------------------------|--------|------------------------|
| | | Dia. (mm) | Length (mm) | *Size Code | Ripple Current (120 Hz) (+85 °C) (mA r.m.s.) | tan δ (120 Hz) (+20 °C) | Endurance (hours) | | | Taping (pcs) |
| 50 | 0.1 | 3 | 5.4 | A | 1 | 0.14 | 1000 | EEE1HS0R1SR ** | (1) | 2000 |
| | | 4 | 5.4 | B | 1 | 0.12 | 2000 | EEE1HA0R1SR *** | (1) | 2000 |
| | 0.22 | 3 | 5.4 | A | 2 | 0.14 | 1000 | EEE1HSR22SR ** | (1) | 2000 |
| | | 4 | 5.4 | B | 2 | 0.12 | 2000 | EEE1HAR22SR *** | (1) | 2000 |
| | 0.33 | 3 | 5.4 | A | 3 | 0.14 | 1000 | EEE1HSR33SR ** | (1) | 2000 |
| | | 4 | 5.4 | B | 3 | 0.12 | 2000 | EEE1HAR33SR *** | (1) | 2000 |
| | 0.47 | 3 | 5.4 | A | 5 | 0.14 | 1000 | EEE1HSR47SR ** | (1) | 2000 |
| | | 4 | 5.4 | B | 5 | 0.12 | 2000 | EEE1HAR47SR *** | (1) | 2000 |
| | 1 | 3 | 5.4 | A | 8 | 0.14 | 1000 | EEE1HS010SR ** | (1) | 2000 |
| | | 4 | 5.4 | B | 10 | 0.12 | 2000 | EEE1HA010SR *** | (1) | 2000 |
| | 2.2 | 3 | 5.4 | A | 8 | 0.14 | 1000 | EEE1HS2R2SR ** | (1) | 2000 |
| | | 4 | 5.4 | B | 16 | 0.12 | 2000 | EEE1HA2R2SR | (1) | 2000 |
| | 3.3 | 4 | 5.4 | B | 16 | 0.12 | 2000 | EEE1HA3R3SR | (1) | 2000 |
| | 4.7 | 4 | 5.4 | (B) | 18 | 0.14 | 1000 | EEE1HA4R7WR | (1) | 2000 |
| | | 5 | 5.4 | C | 23 | 0.12 | 2000 | EEE1HA4R7SR | (1) | 1000 |
| | 10 | 5 | 5.4 | (C) | 27 | 0.14 | 1000 | EEE1HA100WR | (1) | 1000 |
| | | 6.3 | 5.4 | D | 35 | 0.12 | 2000 | EEE1HA100SP | (1) | 1000 |
| | 22 | 6.3 | 5.4 | (D) | 40 | 0.14 | 1000 | EEE1HA220WP | (1) | 1000 |
| | | 8 | 6.2 | E | 120 | 0.12 | 2000 | EEE1HA220P | (2) | 1000 |
| | 33 | 6.3 | 7.7 | D8 | 85 | 0.12 | 2000 | EEE1HA330XP | (1) | 900 |
| 8 | | 6.2 | (E) | 65 | 0.12 | 2000 | EEE1HA330UP | (2) | 1000 | |
| 8 | | 10.2 | F | 110 | 0.12 | 2000 | EEE1HA330P | (2) | 500 | |
| 47 | 6.3 | 7.7 | D8 | 105 | 0.12 | 2000 | EEE1HA470XP | (1) | 900 | |
| | 8 | 10.2 | (F) | 110 | 0.12 | 2000 | EEE1HA470UP | (2) | 500 | |
| | 10 | 10.2 | G | 130 | 0.12 | 2000 | EEE1HA470P | (2) | 500 | |
| 100 | 8 | 10.2 | (F) | 200 | 0.12 | 2000 | EEE1HA101UP | (2) | 500 | |
| | 10 | 10.2 | G | 250 | 0.12 | 2000 | EEE1HA101P | (2) | 500 | |
| 220 | 10 | 10.2 | G | 300 | 0.12 | 2000 | EEE1HA221P | (2) | 500 | |
| 63 | 22 | 8 | 6.2 | (E) | 40 | 0.18 | 2000 | EEE1JA220UP | (2) | 1000 |
| | | 8 | 10.2 | F | 40 | 0.18 | 2000 | EEE1JA220P | (2) | 500 |
| | 33 | 8 | 10.2 | F | 45 | 0.18 | 2000 | EEE1JA330P | (2) | 500 |
| | 47 | 8 | 10.2 | (F) | 45 | 0.18 | 2000 | EEE1JA470UP | (2) | 500 |
| | | 10 | 10.2 | G | 45 | 0.18 | 2000 | EEE1JA470P | (2) | 500 |
| 100 | 10 | 10.2 | G | 60 | 0.18 | 2000 | EEE1JA101P | (2) | 500 | |
| 100 | 3.3 | 8 | 6.2 | E | 50 | 0.18 | 2000 | EEE2AA3R3P | (2) | 1000 |
| | 4.7 | 8 | 6.2 | (E) | 50 | 0.18 | 2000 | EEE2AA4R7UP | (2) | 1000 |
| | 10 | 8 | 6.2 | (E) | 50 | 0.18 | 2000 | EEE2AA100UP | (2) | 1000 |
| | | 8 | 10.2 | F | 85 | 0.18 | 2000 | EEE2AA100P | (2) | 500 |
| | 22 | 8 | 10.2 | (F) | 55 | 0.18 | 2000 | EEE2AA220UP | (2) | 500 |
| | | 10 | 10.2 | G | 85 | 0.18 | 2000 | EEE2AA220P | (2) | 500 |
| 33 | 10 | 10.2 | G | 90 | 0.18 | 2000 | EEE2AA330P | (2) | 500 | |

* Size code():Miniaturization product

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*** Please kindly accept last shipment : 31/Mar/2015

· Please refer to the page of "Reflow Profile" and "The Taping Dimensions".

· When requesting vibration-proof product, please put the last "V" instead to "P"

■ Standard Products (Bi-polar)

Endurance : 85 °C 2000 h

| W.V. | Cap. (±20 %) | Case size | | | Specification | | | Part No. (RoHS:compliant) | Reflow | Min. Packaging Q'ty |
|------|-----------------|-----------|--------|--------------|--|--------------------------------------|-----------|------------------------------|--------|------------------------|
| | | Dia. | Length | Size Code | Ripple Current (120 Hz) (+85 °C) (mA r.m.s.) | tan δ (120 Hz) (+20 °C) | Endurance | | | Taping |
| (V) | (μ F) | (mm) | (mm) | | | | (hours) | | | (pcs) |
| 6.3 | 22 | 5 | 5.4 | C | 29 | 0.52 | 2000 | EEE0JA220NR | (1) | 1000 |
| | 47 | 6.3 | 5.4 | D | 46 | 0.52 | 2000 | EEE0JA470NP | (1) | 1000 |
| 10 | 10 | 4 | 5.4 | B | 25 | 0.40 | 2000 | EEE1AA100NR | (1) | 2000 |
| | 33 | 6.3 | 5.4 | D | 43 | 0.40 | 2000 | EEE1AA330NP | (1) | 1000 |
| 16 | 4.7 | 4 | 5.4 | B | 20 | 0.32 | 2000 | EEE1CA4R7NR | (1) | 2000 |
| | 10 | 5 | 5.4 | C | 25 | 0.32 | 2000 | EEE1CA100NR | (1) | 1000 |
| | 22 | 6.3 | 5.4 | D | 39 | 0.32 | 2000 | EEE1CA220NP | (1) | 1000 |
| 25 | 3.3 | 4 | 5.4 | B | 12 | 0.28 | 2000 | EEE1EA3R3NR | (1) | 2000 |
| | 4.7 | 5 | 5.4 | C | 21 | 0.28 | 2000 | EEE1EA4R7NR | (1) | 1000 |
| | 10 | 6.3 | 5.4 | D | 28 | 0.28 | 2000 | EEE1EA100NP | (1) | 1000 |
| 35 | 2.2 | 4 | 5.4 | B | 12 | 0.24 | 2000 | EEE1VA2R2NR | (1) | 2000 |
| | 4.7 | 5 | 5.4 | C | 22 | 0.24 | 2000 | EEE1VA4R7NR | (1) | 1000 |
| | 10 | 6.3 | 5.4 | D | 30 | 0.24 | 2000 | EEE1VA100NP | (1) | 1000 |
| 50 | 0.22 | 4 | 5.4 | B | 2 | 0.24 | 2000 | EEE1HAR22NR *** | (1) | 2000 |
| | 0.33 | 4 | 5.4 | B | 3 | 0.24 | 2000 | EEE1HAR33NR *** | (1) | 2000 |
| | 0.47 | 4 | 5.4 | B | 5 | 0.24 | 2000 | EEE1HAR47NR *** | (1) | 2000 |
| | 1 | 4 | 5.4 | B | 10 | 0.24 | 2000 | EEE1HA010NR | (1) | 2000 |
| | 2.2 | 5 | 5.4 | C | 16 | 0.24 | 2000 | EEE1HA2R2NR | (1) | 1000 |
| | 3.3 | 5 | 5.4 | C | 21 | 0.24 | 2000 | EEENZ1H3R3R | (1) | 1000 |
| | 4.7 | 6.3 | 5.4 | D | 31 | 0.24 | 2000 | EEE1HA4R7NP | (1) | 1000 |

*** Please kindly accept last shipment : 31/Mar/2015

· Please refer to the page of "Reflow Profile" and "The Taping Dimensions".

· When requesting vibration-proof product, please put the last "V" instead to "P"

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