

Radial Lead Type

Series: **M** Type: **A**



■ Features

- Endurance : 85 °C 2000 h
- Smaller than series SU
- RoHS directive compliant

■ Specifications

| | | |
|-----------------------|--|---|
| Category Temp. Range | -40 °C to +85 °C | -25 °C to +85 °C |
| Rated W.V. Range | 6.3 V.DC to 100 V.DC | 160 V.DC to 450 V.DC |
| Nominal Cap. Range | 0.1 μF to 22000 μF | 1 μF to 470 μF |
| Capacitance Tolerance | ±20 % (120 Hz/+20 °C) | |
| DC Leakage Current | $I \leq 0.01 CV$ or $3 (\mu A)$ After 2 minutes (Whichever is greater) | $I \leq 0.06 CV + 10 (\mu A)$ After 2 minutes |
| tan δ | Please see the attached standard products list | |
| Endurance | After applying rated working voltage for 2000 hours at +85°C±2 °C, when the capacitors are restored to 20 °C, capacitors shall meet the following limits. | |
| | Capacitance change | ±20 % of initial measured value |
| | tan δ | ≤150 % of 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) | |

■ Dimensions in mm (not to scale)



(mm)

| | | | | | | | |
|--------------|-----|-----|-----|-----|------|-----|-----|
| Body Dia. φD | 5 | 6.3 | 8 | 10 | 12.5 | 16 | 18 |
| Lead Dia. φd | 0.5 | 0.5 | 0.6 | 0.6 | 0.6 | 0.8 | 0.8 |
| Lead space F | 2.0 | 2.5 | 3.5 | 5.0 | 5.0 | 7.5 | 7.5 |

Standard Products

| W.V. (V) | Cap. (±20 %) (μF) | Case size | | Specification | | Lead Length | | | | Part No. | Min. Packaging Qty | |
|-------------|-----------------------------|-----------|--------|---|-------------------------------|-----------------------|----------------------|--------------------------|--------------------------|--------------|-----------------------------|---------------------|
| | | Dia. | Length | Ripple Current (120 Hz) (+85 °C) (mA r.m.s.) | tan δ (120 Hz) (+20 °C) | Lead Dia. (mm) | Lead Space | | | | Straight Leads (pcs) | Taping (pcs) |
| | | | | | | | Straight (mm) | Taping *B (mm) | Taping *i (mm) | | | |
| 6.3 | 220 | 5 | 11 | 240 | 0.28 | 0.5 | 2.0 | 5.0 | 2.5 | ECA0JM221() | 200 | 2000 |
| | 470 | 6.3 | 11.2 | 380 | 0.28 | 0.5 | 2.5 | 5.0 | 2.5 | ECA0JM471() | 200 | 2000 |
| | 1000 | 8 | 11.5 | 580 | 0.28 | 0.6 | 3.5 | 5.0 | | ECA0JM102() | 200 | 1000 |
| | 2200 | 10 | 16 | 890 | 0.30 | 0.6 | 5.0 | 5.0 | | ECA0JM222() | 200 | 500 |
| | 3300 | 10 | 20 | 1020 | 0.32 | 0.6 | 5.0 | 5.0 | | ECA0JM332() | 200 | 500 |
| | 4700 | 12.5 | 20 | 1170 | 0.34 | 0.6 | 5.0 | 5.0 | | ECA0JM472() | 200 | 500 |
| | 6800 | 12.5 | 25 | 1270 | 0.38 | 0.6 | 5.0 | 5.0 | | ECA0JM682() | 200 | 500 |
| | 10000 | 16 | 25 | 1450 | 0.46 | 0.8 | 7.5 | 7.5 | | ECA0JM103() | 100 | 250 |
| | 15000 | 16 | 31.5 | 1700 | 0.56 | 0.8 | 7.5 | | | ECA0JM153 | 100 | |
| 10 | 330 | 6.3 | 11.2 | 330 | 0.24 | 0.5 | 2.5 | 5.0 | 2.5 | ECA1AM331() | 200 | 2000 |
| | 1000 | 10 | 12.5 | 630 | 0.24 | 0.6 | 5.0 | 5.0 | | ECA1AM102() | 200 | 500 |
| | 2200 | 10 | 20 | 920 | 0.26 | 0.6 | 5.0 | 5.0 | | ECA1AM222() | 200 | 500 |
| | 3300 | 12.5 | 20 | 1090 | 0.28 | 0.6 | 5.0 | 5.0 | | ECA1AM332() | 200 | 500 |
| | 4700 | 12.5 | 25 | 1200 | 0.30 | 0.6 | 5.0 | 5.0 | | ECA1AM472() | 200 | 500 |
| | 6800 | 16 | 25 | 1400 | 0.34 | 0.8 | 7.5 | 7.5 | | ECA1AM682() | 100 | 250 |
| | 10000 | 16 | 31.5 | 1600 | 0.42 | 0.8 | 7.5 | | | ECA1AM103 | 100 | |
| | 15000 | 18 | 35.5 | 1850 | 0.52 | 0.8 | 7.5 | | | ECA1AM153 | 50 | |
| 16 | 10 | 5 | 11 | 30 | 0.20 | 0.5 | 2.0 | 5.0 | 2.5 | ECA1CM100() | 200 | 2000 |
| | 22 | 5 | 11 | 75 | 0.20 | 0.5 | 2.0 | 5.0 | 2.5 | ECA1CM220() | 200 | 2000 |
| | 33 | 5 | 11 | 110 | 0.20 | 0.5 | 2.0 | 5.0 | 2.5 | ECA1CM330() | 200 | 2000 |
| | 47 | 5 | 11 | 130 | 0.20 | 0.5 | 2.0 | 5.0 | 2.5 | ECA1CM470() | 200 | 2000 |
| | 100 | 5 | 11 | 180 | 0.20 | 0.5 | 2.0 | 5.0 | 2.5 | ECA1CM101() | 200 | 2000 |
| | 220 | 6.3 | 11.2 | 280 | 0.20 | 0.5 | 2.5 | 5.0 | 2.5 | ECA1CM221() | 200 | 2000 |
| | 470 | 8 | 11.5 | 440 | 0.20 | 0.6 | 3.5 | 5.0 | | ECA1CM471() | 200 | 1000 |
| | 1000 | 10 | 16 | 680 | 0.20 | 0.6 | 5.0 | 5.0 | | ECA1CM102() | 200 | 500 |
| | 2200 | 12.5 | 20 | 1000 | 0.22 | 0.6 | 5.0 | 5.0 | | ECA1CM222() | 200 | 500 |
| | 3300 | 12.5 | 25 | 1200 | 0.24 | 0.6 | 5.0 | 5.0 | | ECA1CM332() | 200 | 500 |
| | 4700 | 16 | 25 | 1360 | 0.26 | 0.8 | 7.5 | 7.5 | | ECA1CM472() | 100 | 250 |
| | 6800 | 16 | 31.5 | 1600 | 0.30 | 0.8 | 7.5 | | | ECA1CM682 | 100 | |
| 10000 | 18 | 35.5 | 1800 | 0.38 | 0.8 | 7.5 | | | ECA1CM103 | 50 | | |
| 25 | 100 | 6.3 | 11.2 | 180 | 0.16 | 0.5 | 2.5 | 5.0 | 2.5 | ECA1EM101() | 200 | 2000 |
| | 330 | 8 | 11.5 | 390 | 0.16 | 0.6 | 3.5 | 5.0 | | ECA1EM331() | 200 | 1000 |
| | 470 | 10 | 12.5 | 480 | 0.16 | 0.6 | 5.0 | 5.0 | | ECA1EM471() | 200 | 500 |
| | 1000 | 10 | 20 | 850 | 0.16 | 0.6 | 5.0 | 5.0 | | ECA1EM102() | 200 | 500 |
| | 2200 | 12.5 | 25 | 1200 | 0.18 | 0.6 | 5.0 | 5.0 | | ECA1EM222() | 200 | 500 |
| | 3300 | 16 | 25 | 1300 | 0.20 | 0.8 | 7.5 | 7.5 | | ECA1EM332() | 100 | 250 |
| | 4700 | 16 | 31.5 | 1500 | 0.22 | 0.8 | 7.5 | | | ECA1EM472 | 100 | |
| | 6800 | 18 | 35.5 | 1750 | 0.26 | 0.8 | 7.5 | | | ECA1EM682 | 50 | |
| 35 | 47 | 5 | 11 | 130 | 0.14 | 0.5 | 2.0 | 5.0 | 2.5 | ECA1VM470() | 200 | 2000 |
| | 100 | 6.3 | 11.2 | 210 | 0.14 | 0.5 | 2.5 | 5.0 | 2.5 | ECA1VM101() | 200 | 2000 |
| | 220 | 8 | 11.5 | 350 | 0.14 | 0.6 | 3.5 | 5.0 | | ECA1VM221() | 200 | 1000 |

Endurance : 85 °C 2000 h

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00 Sep. 2010

Standard Products

| W.V. | Cap. (±20 %) | Case size | | Specification | | Lead Length | | | | Part No. | Min. Packaging Qty | |
|------|-----------------|-----------|--------|---|-------------------------------|-------------|------------|--------------|--------------|--------------|--------------------|--------|
| | | Dia. | Length | Ripple Current (120 Hz) (+85 °C) (mA r.m.s.) | tan δ (120 Hz) (+20 °C) | Lead Dia. | Lead Space | | | | Straight Leads | Taping |
| | | | | | | | Straight | Taping *B | Taping *i | | | |
| (V) | (μF) | (mm) | (mm) | (mA r.m.s.) | | (mm) | (mm) | (mm) | | | (pcs) | (pcs) |
| 35 | 330 | 10 | 12.5 | 440 | 0.14 | 0.6 | 5.0 | 5.0 | | ECA1VM331() | 200 | 500 |
| | 470 | 10 | 16 | 550 | 0.14 | 0.6 | 5.0 | 5.0 | | ECA1VM471() | 200 | 500 |
| | 1000 | 12.5 | 20 | 900 | 0.14 | 0.6 | 5.0 | 5.0 | | ECA1VM102() | 200 | 500 |
| | 2200 | 16 | 25 | 1250 | 0.16 | 0.8 | 7.5 | 7.5 | | ECA1VM222() | 100 | 250 |
| | 3300 | 16 | 31.5 | 1400 | 0.18 | 0.8 | 7.5 | | | ECA1VM332 | 100 | |
| | 4700 | 18 | 35.5 | 1600 | 0.20 | 0.8 | 7.5 | | | ECA1VM472 | 50 | |
| 50 | 0.1 | 5 | 11 | 1.3 | 0.12 | 0.5 | 2.0 | 5.0 | 2.5 | ECA1HM0R1() | 200 | 2000 |
| | 0.22 | 5 | 11 | 2.9 | 0.12 | 0.5 | 2.0 | 5.0 | 2.5 | ECA1HMR22() | 200 | 2000 |
| | 0.33 | 5 | 11 | 4.4 | 0.12 | 0.5 | 2.0 | 5.0 | 2.5 | ECA1HMR33() | 200 | 2000 |
| | 0.47 | 5 | 11 | 5 | 0.12 | 0.5 | 2.0 | 5.0 | 2.5 | ECA1HMR47() | 200 | 2000 |
| | 1 | 5 | 11 | 10 | 0.12 | 0.5 | 2.0 | 5.0 | 2.5 | ECA1HM010() | 200 | 2000 |
| | 2.2 | 5 | 11 | 20 | 0.12 | 0.5 | 2.0 | 5.0 | 2.5 | ECA1HM2R2() | 200 | 2000 |
| | 3.3 | 5 | 11 | 35 | 0.12 | 0.5 | 2.0 | 5.0 | 2.5 | ECA1HM3R3() | 200 | 2000 |
| | 4.7 | 5 | 11 | 45 | 0.12 | 0.5 | 2.0 | 5.0 | 2.5 | ECA1HM4R7() | 200 | 2000 |
| | 10 | 5 | 11 | 65 | 0.12 | 0.5 | 2.0 | 5.0 | 2.5 | ECA1HM100() | 200 | 2000 |
| | 22 | 5 | 11 | 100 | 0.12 | 0.5 | 2.0 | 5.0 | 2.5 | ECA1HM220() | 200 | 2000 |
| | 33 | 5 | 11 | 110 | 0.12 | 0.5 | 2.0 | 5.0 | 2.5 | ECA1HM330() | 200 | 2000 |
| | 47 | 6.3 | 11.2 | 130 | 0.12 | 0.5 | 2.5 | 5.0 | 2.5 | ECA1HM470() | 200 | 2000 |
| | 100 | 8 | 11.5 | 250 | 0.12 | 0.6 | 3.5 | 5.0 | | ECA1HM101() | 200 | 1000 |
| | 220 | 10 | 12.5 | 400 | 0.12 | 0.6 | 5.0 | 5.0 | | ECA1HM221() | 200 | 500 |
| | 330 | 10 | 16 | 500 | 0.12 | 0.6 | 5.0 | 5.0 | | ECA1HM331() | 200 | 500 |
| | 470 | 10 | 20 | 650 | 0.12 | 0.6 | 5.0 | 5.0 | | ECA1HM471() | 200 | 500 |
| | 1000 | 12.5 | 25 | 1050 | 0.12 | 0.6 | 5.0 | 5.0 | | ECA1HM102() | 200 | 500 |
| | 2200 | 16 | 31.5 | 1300 | 0.14 | 0.8 | 7.5 | | | ECA1HM222 | 100 | |
| 3300 | 18 | 35.5 | 1500 | 0.16 | 0.8 | 7.5 | | | ECA1HM332 | 50 | | |
| 63 | 10 | 5 | 11 | 70 | 0.11 | 0.5 | 2.0 | 5.0 | 2.5 | ECA1JM100() | 200 | 2000 |
| | 22 | 5 | 11 | 105 | 0.11 | 0.5 | 2.0 | 5.0 | 2.5 | ECA1JM220() | 200 | 2000 |
| | 33 | 6.3 | 11.2 | 130 | 0.11 | 0.5 | 2.5 | 5.0 | 2.5 | ECA1JM330() | 200 | 2000 |
| | 47 | 6.3 | 11.2 | 160 | 0.11 | 0.5 | 2.5 | 5.0 | 2.5 | ECA1JM470() | 200 | 2000 |
| | 100 | 8 | 11.5 | 270 | 0.11 | 0.6 | 3.5 | 5.0 | | ECA1JM101() | 200 | 1000 |
| | 220 | 10 | 16 | 450 | 0.11 | 0.6 | 5.0 | 5.0 | | ECA1JM221() | 200 | 500 |
| | 330 | 10 | 20 | 550 | 0.11 | 0.6 | 5.0 | 5.0 | | ECA1JM331() | 200 | 500 |
| | 470 | 12.5 | 20 | 750 | 0.11 | 0.6 | 5.0 | 5.0 | | ECA1JM471() | 200 | 500 |
| | 1000 | 16 | 25 | 1100 | 0.11 | 0.8 | 7.5 | 7.5 | | ECA1JM102() | 100 | 250 |
| 2200 | 18 | 35.5 | 1400 | 0.13 | 0.8 | 7.5 | | | ECA1JM222 | 50 | | |
| 100 | 0.47 | 5 | 11 | 10 | 0.10 | 0.5 | 2.0 | 5.0 | 2.5 | ECA2AMR47() | 200 | 2000 |
| | 1 | 5 | 11 | 20 | 0.10 | 0.5 | 2.0 | 5.0 | 2.5 | ECA2AM010() | 200 | 2000 |
| | 2.2 | 5 | 11 | 30 | 0.10 | 0.5 | 2.0 | 5.0 | 2.5 | ECA2AM2R2() | 200 | 2000 |
| | 3.3 | 5 | 11 | 40 | 0.10 | 0.5 | 2.0 | 5.0 | 2.5 | ECA2AM3R3() | 200 | 2000 |
| | 4.7 | 5 | 11 | 50 | 0.10 | 0.5 | 2.0 | 5.0 | 2.5 | ECA2AM4R7() | 200 | 2000 |
| | 10 | 5 | 11 | 70 | 0.10 | 0.5 | 2.0 | 5.0 | 2.5 | ECA2AM100() | 200 | 2000 |
| | 22 | 6.3 | 11.2 | 115 | 0.10 | 0.5 | 2.5 | 5.0 | 2.5 | ECA2AM220() | 200 | 2000 |

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Standard Products

| W.V. (V) | Cap. (±20 %) (μF) | Case size | | Specification | | Lead Length | | | | Part No. | Min. Packaging Qty | |
|-------------|-------------------------|--------------|----------------|---|-------------------------------|-------------------|------------------|----------------------|----------------------|--------------|-------------------------|-----------------|
| | | Dia. (mm) | Length (mm) | Ripple Current (120 Hz) (+85 °C) (mA r.m.s.) | tan δ (120 Hz) (+20 °C) | Lead Dia. (mm) | Lead Space | | | | Straight Leads (pcs) | Taping (pcs) |
| | | | | | | | Straight (mm) | Taping *B (mm) | Taping *i (mm) | | | |
| 100 | 33 | 8 | 11.5 | 145 | 0.10 | 0.6 | 3.5 | 5.0 | | ECA2AM330() | 200 | 1000 |
| | 47 | 8 | 11.5 | 180 | 0.10 | 0.6 | 3.5 | 5.0 | | ECA2AM470() | 200 | 1000 |
| | 100 | 10 | 16 | 350 | 0.10 | 0.6 | 5.0 | 5.0 | | ECA2AM101() | 200 | 500 |
| | 220 | 12.5 | 20 | 550 | 0.10 | 0.6 | 5.0 | 5.0 | | ECA2AM221() | 200 | 500 |
| | 330 | 12.5 | 25 | 700 | 0.10 | 0.6 | 5.0 | 5.0 | | ECA2AM331() | 200 | 500 |
| | 470 | 16 | 25 | 900 | 0.10 | 0.8 | 7.5 | 7.5 | | ECA2AM471() | 100 | 250 |
| | 1000 | 18 | 35.5 | 1300 | 0.10 | 0.8 | 7.5 | | | ECA2AM102 | 50 | |
| 160 | 1 | 6.3 | 11.2 | 36 | 0.16 | 0.5 | 2.5 | 5.0 | 2.5 | ECA2CM010() | 200 | 2000 |
| | 2.2 | 6.3 | 11.2 | 53 | 0.16 | 0.5 | 2.5 | 5.0 | 2.5 | ECA2CM2R2() | 200 | 2000 |
| | 3.3 | 6.3 | 11.2 | 66 | 0.16 | 0.5 | 2.5 | 5.0 | 2.5 | ECA2CM3R3() | 200 | 2000 |
| | 4.7 | 6.3 | 11.2 | 78 | 0.16 | 0.5 | 2.5 | 5.0 | 2.5 | ECA2CM4R7() | 200 | 2000 |
| | 10 | 10 | 12.5 | 105 | 0.16 | 0.6 | 5.0 | 5.0 | | ECA2CM100() | 200 | 500 |
| | 22 | 10 | 16 | 175 | 0.16 | 0.6 | 5.0 | 5.0 | | ECA2CM220() | 200 | 500 |
| | 33 | 10 | 20 | 235 | 0.16 | 0.6 | 5.0 | 5.0 | | ECA2CM330() | 200 | 500 |
| | 47 | 12.5 | 20 | 320 | 0.16 | 0.6 | 5.0 | 5.0 | | ECA2CM470() | 200 | 500 |
| | 100 | 12.5 | 25 | 515 | 0.16 | 0.6 | 5.0 | 5.0 | | ECA2CM101() | 200 | 500 |
| | 220 | 16 | 31.5 | 830 | 0.16 | 0.8 | 7.5 | | | ECA2CM221 | 100 | |
| | 330 | 18 | 31.5 | 1090 | 0.16 | 0.8 | 7.5 | | | ECA2CM331 | 50 | |
| 470 | 18 | 40 | 1440 | 0.16 | 0.8 | 7.5 | | | ECA2CM471 | 50 | | |
| 200 | 1 | 6.3 | 11.2 | 34 | 0.18 | 0.5 | 2.5 | 5.0 | 2.5 | ECA2DM010() | 200 | 2000 |
| | 2.2 | 6.3 | 11.2 | 50 | 0.18 | 0.5 | 2.5 | 5.0 | 2.5 | ECA2DM2R2() | 200 | 2000 |
| | 3.3 | 6.3 | 11.2 | 62 | 0.18 | 0.5 | 2.5 | 5.0 | 2.5 | ECA2DM3R3() | 200 | 2000 |
| | 4.7 | 8 | 11.5 | 86 | 0.18 | 0.6 | 3.5 | 5.0 | | ECA2DM4R7() | 200 | 1000 |
| | 10 | 10 | 12.5 | 100 | 0.18 | 0.6 | 5.0 | 5.0 | | ECA2DM100() | 200 | 500 |
| | 22 | 10 | 20 | 180 | 0.18 | 0.6 | 5.0 | 5.0 | | ECA2DM220() | 200 | 500 |
| | 33 | 10 | 20 | 220 | 0.18 | 0.6 | 5.0 | 5.0 | | ECA2DM330() | 200 | 500 |
| | 47 | 12.5 | 20 | 300 | 0.18 | 0.6 | 5.0 | 5.0 | | ECA2DM470() | 200 | 500 |
| | 100 | 16 | 25 | 475 | 0.18 | 0.8 | 7.5 | 7.5 | | ECA2DM101() | 100 | 250 |
| | 220 | 18 | 31.5 | 835 | 0.18 | 0.8 | 7.5 | | | ECA2DM221 | 50 | |
| | 330 | 18 | 40 | 1140 | 0.18 | 0.8 | 7.5 | | | ECA2DM331 | 50 | |
| 250 | 1 | 6.3 | 11.2 | 34 | 0.18 | 0.5 | 2.5 | 5.0 | 2.5 | ECA2EM010() | 200 | 2000 |
| | 2.2 | 6.3 | 11.2 | 50 | 0.18 | 0.5 | 2.5 | 5.0 | 2.5 | ECA2EM2R2() | 200 | 2000 |
| | 3.3 | 8 | 11.5 | 72 | 0.18 | 0.6 | 3.5 | 5.0 | | ECA2EM3R3() | 200 | 1000 |
| | 4.7 | 8 | 11.5 | 86 | 0.18 | 0.6 | 3.5 | 5.0 | | ECA2EM4R7() | 200 | 1000 |
| | 10 | 10 | 16 | 110 | 0.18 | 0.6 | 5.0 | 5.0 | | ECA2EM100() | 200 | 500 |
| | 22 | 10 | 20 | 180 | 0.18 | 0.6 | 5.0 | 5.0 | | ECA2EM220() | 200 | 500 |
| | 33 | 12.5 | 20 | 250 | 0.18 | 0.6 | 5.0 | 5.0 | | ECA2EM330() | 200 | 500 |
| | 47 | 12.5 | 25 | 330 | 0.18 | 0.6 | 5.0 | 5.0 | | ECA2EM470() | 200 | 500 |
| | 100 | 16 | 31.5 | 530 | 0.18 | 0.8 | 7.5 | | | ECA2EM101 | 100 | |
| | 220 | 18 | 40 | 930 | 0.18 | 0.8 | 7.5 | | | ECA2EM221 | 50 | |
| 350 | 1 | 6.3 | 11.2 | 32 | 0.20 | 0.5 | 2.5 | 5.0 | 2.5 | ECA2VM010() | 200 | 2000 |
| | 2.2 | 8 | 11.5 | 55 | 0.20 | 0.6 | 3.5 | 5.0 | | ECA2VM2R2() | 200 | 1000 |

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| W.V. | Cap. (±20 %) | Case size | | Specification | | Lead Length | | | Part No. | Min. Packaging Q'ty | | |
|------|-----------------|-----------|--------|--|-------------------------------|-------------|------------|--------------|----------|---------------------|--------|--------------|
| | | Dia. | Length | Ripple Current (120 Hz) (+85 °C) | tan δ (120 Hz) (+20 °C) | Lead Dia. | Lead Space | | | Straight Leads | Taping | |
| | | | | | | | Straight | Taping *B | | | | Taping *i |
| 350 | (V) | (μF) | (mm) | (mm) | (mA r.m.s.) | (mm) | (mm) | (mm) | (mm) | | | |
| | 3.3 | 8 | 11.5 | 60 | 0.20 | 0.6 | 3.5 | 5.0 | | ECA2VM3R3() | 200 | 1000 |
| | 4.7 | 10 | 12.5 | 65 | 0.20 | 0.6 | 5.0 | 5.0 | | ECA2VM4R7() | 200 | 500 |
| | 10 | 10 | 20 | 115 | 0.20 | 0.6 | 5.0 | 5.0 | | ECA2VM100() | 200 | 500 |
| | 22 | 12.5 | 20 | 195 | 0.20 | 0.6 | 5.0 | 5.0 | | ECA2VM220() | 200 | 500 |
| | 33 | 16 | 25 | 300 | 0.20 | 0.8 | 7.5 | 7.5 | | ECA2VM330() | 100 | 250 |
| | 47 | 16 | 25 | 325 | 0.20 | 0.8 | 7.5 | 7.5 | | ECA2VM470() | 100 | 250 |
| | 100 | 18 | 31.5 | 535 | 0.20 | 0.8 | 7.5 | | | ECA2VM101 | 50 | |
| 400 | 1 | 6.3 | 11.2 | 32 | 0.20 | 0.5 | 2.5 | 5.0 | 2.5 | ECA2GM010() | 200 | 2000 |
| | 2.2 | 8 | 11.5 | 50 | 0.20 | 0.6 | 3.5 | 5.0 | | ECA2GM2R2() | 200 | 1000 |
| | 3.3 | 10 | 12.5 | 54 | 0.20 | 0.6 | 5.0 | 5.0 | | ECA2GM3R3() | 200 | 500 |
| | 4.7 | 10 | 16 | 72 | 0.20 | 0.6 | 5.0 | 5.0 | | ECA2GM4R7() | 200 | 500 |
| | 10 | 10 | 20 | 115 | 0.20 | 0.6 | 5.0 | 5.0 | | ECA2GM100() | 200 | 500 |
| | 22 | 12.5 | 25 | 215 | 0.20 | 0.6 | 5.0 | 5.0 | | ECA2GM220() | 200 | 500 |
| | 33 | 16 | 25 | 275 | 0.20 | 0.8 | 7.5 | 7.5 | | ECA2GM330() | 100 | 250 |
| | 47 | 16 | 31.5 | 350 | 0.20 | 0.8 | 7.5 | | | ECA2GM470 | 100 | |
| | 100 | 18 | 40 | 600 | 0.20 | 0.8 | 7.5 | | | ECA2GM101 | 50 | |
| 450 | 1 | 8 | 11.5 | 37 | 0.20 | 0.6 | 3.5 | 5.0 | | ECA2WM010() | 200 | 1000 |
| | 2.2 | 10 | 12.5 | 44 | 0.20 | 0.6 | 5.0 | 5.0 | | ECA2WM2R2() | 200 | 500 |
| | 3.3 | 10 | 16 | 60 | 0.20 | 0.6 | 5.0 | 5.0 | | ECA2WM3R3() | 200 | 500 |
| | 4.7 | 10 | 20 | 79 | 0.20 | 0.6 | 5.0 | 5.0 | | ECA2WM4R7() | 200 | 500 |
| | 10 | 12.5 | 20 | 130 | 0.20 | 0.6 | 5.0 | 5.0 | | ECA2WM100() | 200 | 500 |
| | 22 | 16 | 25 | 210 | 0.20 | 0.8 | 7.5 | 7.5 | | ECA2WM220() | 100 | 250 |
| | 33 | 16 | 31.5 | 285 | 0.20 | 0.8 | 7.5 | | | ECA2WM330 | 100 | |

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