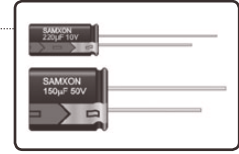


FEATURES

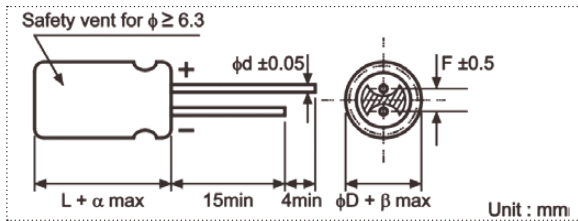
- Low impedance for high frequency.
- Life time: 1,000~4,000 hours at 105°C.



SPECIFICATIONS

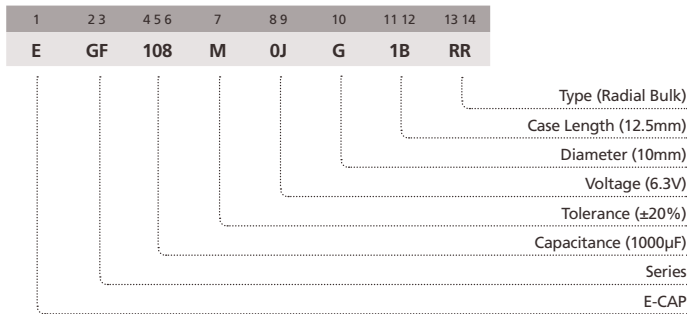
| Item | Performance Characteristics | | | | | | | | |
|--|--|--|--------|--------|--------|---|------|------|------|
| Operating Temperature Range | -40 to +105°C | | | | | | | | |
| Rated Working Voltage Range | 6.3 to 100V | | | | | | | | |
| Nominal Capacitance Range | 3.3 to 4700µF | | | | | | | | |
| Capacitance Tolerance | ±20% at 120Hz, +20°C | | | | | | | | |
| Leakage Current | I ≤ 0.01CV or 3 (µA) whichever is greater measured after 2 minutes application of rated working voltage at +20°C | | | | | | | | |
| tan δ (120Hz, +20°C) | Working Voltage (V) | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 100 |
| | tan δ (max.) | 0.22 | 0.19 | 0.16 | 0.14 | 0.12 | 0.10 | 0.09 | 0.08 |
| For capacitance value >1000µF, add 0.02 per another 1000µF | | | | | | | | | |
| Low Temperature Characteristics | Impedance ratio max. at 120Hz | | | | | | | | |
| | Working Voltage (V) | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 100 |
| | Z-25°C / Z+20°C | 4 | 3 | 2 | 2 | 2 | 2 | 2 | 2 |
| Z-40°C / Z+20°C | | | | | | | | | |
| High Temperature Loading | Test time | φD L ≤ 7 | D5-6.3 | D8-10 | D12.5 | Post test requirements at +20°C | | | |
| | Load life | 1,000h | 2,000h | 3,000h | 4,000h | Leakage current : ≤ Initial specified value | | | |
| | Test temperature | : +105°C | | | | Cap. change : within ±25% of the initial measured value | | | |
| | Test conditions | : Rated DC working voltage with rated ripple current | | | | tan δ : ≤ 150% of the initial specified value | | | |
| Shelf Life | At +105°C no voltage applied after 1,000 hours and then being stabilized at +20°C the capacitors shall meet the following limits | | | | | | | | |
| | Leakage current | : ≤ Initial specified value | | | | | | | |
| | Cap. change | : within ±25% of the initial measured value | | | | | | | |
| | tan δ | : ≤ 150% of the initial specified value | | | | | | | |
| Industrial Standard | JIS C - 5101-4 (IEC 60384-4) | | | | | | | | |

CASE SIZE TABLE



| φD | 4 | 5 | 6.3 | 8 (L < 20) | 8 (L ≥ 20) | 10 | 12.5 |
|----|--------------|--------------|------------------|------------|--------------|-----|------|
| F | 1.5 | 2.0 | 2.5 | 3.5 | 3.5 | 5.0 | 5.0 |
| φd | 0.45 | (L ≤ 7) 0.45 | (L ≥ 9) 0.50 | 0.6 | 0.6 | 0.6 | 0.6 |
| α | (L ≤ 7) 1 | | (L ≤ 9 < 20) 1.5 | | (L ≥ 20) 2.0 | | |
| β | (D < 20) 0.5 | | | | (D ≥ 20) 1.0 | | |

PART NUMBER SYSTEM (EXAMPLE : 6.3V 1000µF)



STANDARD RATINGS

| Voltage (Code) | | 6.3V (0J) | | | 10V (1A) | | | 16V (1C) | | |
|----------------|------|-----------|-----------|----------------|-----------|-----------|----------------|-----------|-----------|----------------|
| Cap. (μF) | Code | Case Size | Impedance | Ripple Current | Case Size | Impedance | Ripple Current | Case Size | Impedance | Ripple Current |
| 10 | 106 | | | | | | | 4 x 5 | 5.000 | 50 |
| 15 | 156 | | | | | | | 4 x 7 | 3.300 | 70 |
| | | | | | | | | 5 x 5 | 2.600 | 80 |
| 22 | 226 | 4 x 5 | 5.000 | 50 | 4 x 7 | 3.300 | 70 | 5 x 7 | 1.700 | 110 |
| | | | | | 5 x 5 | 2.600 | 80 | 5 x 5 | 2.600 | 80 |
| 33 | 336 | 5 x 5 | 2.600 | 80 | 5 x 5 | 2.600 | 80 | 6.3 x 5 | 1.300 | 115 |
| | | 5 x 7 | 1.700 | 110 | 5 x 7 | 1.700 | 110 | 6.3 x 7 | 0.800 | 160 |
| 47 | 476 | 5 x 5 | 2.600 | 80 | 6.3 x 5 | 1.300 | 115 | 6.3 x 5 | 1.300 | 115 |
| | | 5 x 7 | 1.700 | 110 | 6.3 x 7 | 0.800 | 160 | 6.3 x 7 | 0.800 | 160 |
| 68 | 686 | 6.3 x 5 | 1.300 | 115 | 6.3 x 7 | 0.800 | 160 | 8 x 7 | 0.500 | 200 |
| | | 6.3 x 7 | 0.800 | 160 | | | | | | |
| 100 | 107 | 6.3 x 5 | 1.300 | 115 | 8 x 7 | 0.500 | 200 | 6.3 x 11 | 0.220 | 340 |
| | | 6.3 x 7 | 0.800 | 160 | | | | 8 x 7 | 0.500 | 200 |
| 120 | 127 | | | | | | | 6.3 x 11 | 0.220 | 340 |
| 150 | 157 | 8 x 7 | 0.500 | 200 | 6.3 x 11 | 0.220 | 340 | 6.3 x 11 | 0.220 | 340 |
| | | | | | 8 x 7 | 0.500 | 200 | 8 x 12 | 0.130 | 640 |
| 180 | 187 | 6.3 x 11 | 0.220 | 340 | 6.3 x 11 | 0.220 | 340 | 6.3 x 11 | 0.220 | 340 |
| | | | | | | | | 8 x 12 | 0.130 | 640 |
| 220 | 227 | 8 x 7 | 0.500 | 200 | 6.3 x 11 | 0.220 | 340 | 6.3 x 11 | 0.220 | 340 |
| | | 6.3 x 11 | 0.220 | 340 | | | | 8 x 12 | 0.130 | 640 |
| 270 | 277 | 6.3 x 11 | 0.220 | 340 | 6.3 x 11 | 0.220 | 340 | 8 x 12 | 0.130 | 640 |
| | | | | | 8 x 12 | 0.130 | 640 | | | |
| 330 | 337 | 6.3 x 11 | 0.220 | 340 | 6.3 x 11 | 0.220 | 340 | 6.3 x 11 | 0.220 | 340 |
| | | 8 x 12 | 0.130 | 640 | 8 x 12 | 0.130 | 640 | 8 x 12 | 0.130 | 640 |
| 390 | 397 | 8 x 12 | 0.130 | 640 | 8 x 12 | 0.130 | 640 | 8 x 12 | 0.130 | 640 |
| 470 | 477 | 8 x 12 | 0.130 | 640 | 6.3 x 11 | 0.220 | 340 | 8 x 12 | 0.130 | 640 |
| | | | | | 8 x 12 | 0.130 | 640 | 10 x 12.5 | 0.080 | 865 |
| 560 | 567 | 8 x 12 | 0.130 | 640 | 8 x 12 | 0.130 | 640 | 10 x 12.5 | 0.080 | 865 |
| | | | | | | | | 8 x 16 | 0.087 | 840 |
| 680 | 687 | 8 x 12 | 0.130 | 640 | 8 x 12 | 0.130 | 640 | 10 x 12.5 | 0.080 | 865 |
| | | | | | | | | 10 x 12.5 | 0.080 | 865 |
| 820 | 827 | 8 x 12 | 0.130 | 640 | 10 x 12.5 | 0.080 | 865 | 10 x 16 | 0.060 | 1210 |
| | | 10 x 12.5 | 0.080 | 865 | | | | | | |
| 1000 | 108 | 8 x 12 | 0.130 | 640 | 8 x 16 | 0.087 | 840 | 8 x 16 | 0.087 | 840 |
| | | 10 x 12.5 | 0.080 | 865 | 10 x 16 | 0.060 | 1210 | 10 x 16 | 0.060 | 1210 |
| 1200 | 128 | 8 x 16 | 0.087 | 840 | 10 x 20 | 0.046 | 1400 | 10 x 20 | 0.046 | 1400 |
| | | 10 x 12.5 | 0.080 | 865 | | | | | | |
| 1500 | 158 | 8 x 20 | 0.069 | 1050 | 10 x 20 | 0.046 | 1400 | 10 x 20 | 0.046 | 1400 |
| | | 10 x 16 | 0.060 | 1210 | | | | | | |
| 1800 | 188 | 10 x 20 | 0.046 | 1400 | 10 x 20 | 0.046 | 1400 | 10 x 25 | 0.042 | 1650 |
| | | | | | | | | 12.5 x 20 | 0.035 | 1900 |
| 2200 | 228 | 10 x 20 | 0.046 | 1400 | 10 x 20 | 0.046 | 1400 | 10 x 25 | 0.042 | 1650 |
| | | | | | | | | 12.5 x 20 | 0.035 | 1900 |
| 2700 | 278 | 10 x 25 | 0.042 | 1650 | 10 x 25 | 0.042 | 1650 | 12.5 x 25 | 0.030 | 2124 |
| | | 12.5 x 20 | 0.035 | 1900 | 12.5 x 20 | 0.035 | 1900 | | | |
| 3300 | 338 | 10 x 25 | 0.042 | 1650 | 12.5 x 25 | 0.030 | 2124 | 12.5 x 25 | 0.030 | 2124 |
| | | 12.5 x 20 | 0.035 | 1900 | | | | | | |
| 3900 | 398 | 12.5 x 20 | 0.035 | 1900 | | | | | | |
| 4700 | 478 | 12.5 x 25 | 0.030 | 2124 | | | | | | |

Maximum Allowable Ripple Current (mArms) at 105°C 100kHz

Case Size Φ D x L (mm)

Maximum Impedance (Ω) at 20°C 100kHz

Specifications are subject to change without notice. Should a safety or technical concern arise regarding the product, please be sure to contact our sales offices or agents immediately.

STANDARD RATINGS

| Voltage (Code) | | 25V (1E) | | | 35V (1V) | | | 50V (1H) | | |
|----------------|------|-----------|-----------|----------------|-----------|-----------|----------------|-----------|-----------|----------------|
| Cap. (µF) | Code | Case Size | Impedance | Ripple Current | Case Size | Impedance | Ripple Current | Case Size | Impedance | Ripple Current |
| 3.3 | 335 | | | | 4 x 5 | 5.000 | 50 | | | |
| 4.7 | 475 | 4 x 5 | 5.000 | 50 | 4 x 5 | 5.000 | 50 | | | |
| 6.8 | 685 | 4 x 5 | 5.000 | 50 | 4 x 7 | 3.300 | 70 | | | |
| | | | | | 5 x 5 | 2.600 | 80 | | | |
| 10 | 106 | 4 x 7 | 3.300 | 70 | 5 x 5 | 2.600 | 80 | | | |
| | | 5 x 5 | 2.600 | 80 | 5 x 7 | 1.700 | 110 | | | |
| 15 | 156 | 5 x 7 | 1.700 | 110 | 6.3 x 5 | 1.300 | 115 | | | |
| | | 6.3 x 5 | 1.300 | 115 | 6.3 x 7 | 0.800 | 160 | | | |
| 22 | 226 | 5 x 7 | 1.700 | 110 | 6.3 x 5 | 1.300 | 115 | | | |
| | | 6.3 x 5 | 1.300 | 115 | 6.3 x 7 | 0.800 | 160 | | | |
| 33 | 336 | 6.3 x 5 | 1.300 | 115 | 8 x 7 | 0.500 | 200 | 6.3 x 11 | 0.300 | 295 |
| | | 6.3 x 7 | 0.800 | 160 | | | | | | |
| 39 | 396 | | | | | | | 6.3 x 11 | 0.300 | 295 |
| 47 | 476 | 8 x 7 | 0.500 | 200 | 6.3 x 11 | 0.220 | 340 | 6.3 x 11 | 0.300 | 295 |
| 56 | 566 | | | | 6.3 x 11 | 0.220 | 340 | 8 x 12 | 0.170 | 555 |
| 68 | 686 | 8 x 7 | 0.500 | 200 | 6.3 x 11 | 0.220 | 340 | 8 x 12 | 0.170 | 555 |
| 82 | 826 | 6.3 x 11 | 0.220 | 340 | 8 x 12 | 0.130 | 640 | 8 x 12 | 0.170 | 555 |
| 100 | 107 | 6.3 x 11 | 0.220 | 340 | 6.3 x 11 | 0.220 | 340 | 10 x 12.5 | 0.120 | 760 |
| | | | | | 8 x 12 | 0.130 | 640 | | | |
| 120 | 127 | 8 x 12 | 0.130 | 640 | 8 x 12 | 0.130 | 640 | 8 x 16 | 0.120 | 730 |
| | | | | | | | | 10 x 12.5 | 0.120 | 760 |
| 150 | 157 | 8 x 12 | 0.130 | 640 | 8 x 12 | 0.130 | 640 | 10 x 16 | 0.084 | 1050 |
| 180 | 187 | 8 x 12 | 0.130 | 640 | 10 x 12.5 | 0.080 | 865 | 8 x 20 | 0.091 | 910 |
| | | | | | | | | 10 x 16 | 0.084 | 1050 |
| 220 | 227 | 8 x 12 | 0.130 | 640 | 8 x 12 | 0.130 | 640 | 8 x 20 | 0.091 | 910 |
| | | | | | 8 x 16 | 0.087 | 840 | | | |
| | | | | | 10 x 12.5 | 0.080 | 865 | | | |
| 270 | 277 | 8 x 12 | 0.130 | 640 | 10 x 16 | 0.060 | 1210 | 10 x 25 | 0.055 | 1440 |
| | | 10 x 12.5 | 0.080 | 865 | | | | | | |
| 330 | 337 | 8 x 12 | 0.130 | 640 | 8 x 16 | 0.087 | 840 | 12.5 x 20 | 0.045 | 1660 |
| | | | | | 8 x 20 | 0.069 | 1050 | | | |
| | | 10 x 12.5 | 0.080 | 865 | 10 x 16 | 0.060 | 1210 | | | |
| 390 | 397 | 10 x 12.5 | 0.080 | 865 | 10 x 16 | 0.060 | 1210 | 12.5 x 20 | 0.045 | 1660 |
| 470 | 477 | 8 x 16 | 0.087 | 840 | 10 x 16 | 0.060 | 1210 | 12.5 x 25 | 0.034 | 1950 |
| | | 10 x 12.5 | 0.080 | 865 | | | | | | |
| | | 10 x 16 | 0.060 | 1210 | 10 x 20 | 0.046 | 1400 | | | |
| 560 | 567 | 10 x 16 | 0.060 | 1210 | 10 x 20 | 0.046 | 1400 | 12.5 x 25 | 0.034 | 1950 |
| 680 | 687 | 10 x 16 | 0.060 | 1210 | 10 x 20 | 0.046 | 1400 | | | |
| | | 10 x 20 | 0.046 | 1400 | 12.5 x 20 | 0.035 | 1900 | | | |
| 820 | 827 | 10 x 20 | 0.046 | 1400 | 10 x 25 | 0.042 | 1650 | | | |
| | | | | | 12.5 x 20 | 0.035 | 1900 | | | |
| 1000 | 108 | 10 x 20 | 0.046 | 1400 | 12.5 x 20 | 0.035 | 1900 | | | |
| | | | | | 12.5 x 25 | 0.030 | 2124 | | | |
| 1200 | 128 | 10 x 20 | 0.046 | 1400 | | | | | | |
| 1500 | 158 | 10 x 25 | 0.042 | 1650 | | | | | | |
| | | 12.5 x 20 | 0.035 | 1900 | | | | | | |
| 1800 | 188 | 12.5 x 25 | 0.030 | 2124 | | | | | | |
| 2200 | 228 | 12.5 x 25 | 0.030 | 2124 | | | | | | |

Maximum Allowable Ripple Current (mArms) at 105°C 100kHz

Case Size Φ D x L (mm)

Maximum Impedance (Ω) at 20°C 100kHz

Specifications are subject to change without notice. Should a safety or technical concern arise regarding the product, please be sure to contact our sales offices or agents immediately.

STANDARD RATINGS

| Voltage (Code) | | 63V (1J) | | | 100V (2A) | | |
|----------------|------|-----------|-----------|----------------|-----------|-----------|----------------|
| Cap. (μF) | Code | Case Size | Impedance | Ripple Current | Case Size | Impedance | Ripple Current |
| 15 | 156 | | | | 6.3 x 11 | 0.960 | 115 |
| 22 | 226 | 6.3 x 11 | 0.960 | 115 | | | |
| 27 | 276 | 6.3 x 11 | 0.960 | 115 | 8 x 12 | 0.504 | 232 |
| 33 | 336 | 6.3 x 11 | 0.960 | 115 | | | |
| 39 | 396 | 8 x 12 | 0.504 | 232 | 8 x 16 | 0.360 | 300 |
| 47 | 476 | 8 x 12 | 0.504 | 232 | 10 x 12.5 | 0.344 | 314 |
| 56 | 566 | 8 x 12 | 0.504 | 232 | 8 x 20 | 0.264 | 362 |
| 68 | 686 | 8 x 12 | 0.504 | 232 | 10 x 16 | 0.248 | 357 |
| 82 | 826 | 10 x 12.5 | 0.344 | 314 | 10 x 20 | 0.168 | 466 |
| 100 | 107 | 8 x 16 | 0.360 | 300 | 10 x 20 | 0.168 | 466 |
| | | 10 x 12.5 | 0.344 | 314 | 12.5 x 20 | 0.128 | 690 |
| 120 | 127 | 8 x 16 | 0.360 | 300 | 12.5 x 20 | 0.128 | 690 |
| | | 10 x 16 | 0.248 | 357 | | | |
| 150 | 157 | 8 x 20 | 0.264 | 362 | | | |
| 180 | 187 | 10 x 20 | 0.168 | 466 | 12.5 x 25 | 0.096 | 922 |
| 220 | 227 | 10 x 16 | 0.248 | 357 | 12.5 x 25 | 0.096 | 922 |
| | | 10 x 20 | 0.168 | 466 | | | |
| 270 | 277 | 12.5 x 20 | 0.128 | 690 | | | |
| 330 | 337 | 12.5 x 20 | 0.128 | 690 | | | |
| 390 | 397 | 12.5 x 25 | 0.096 | 922 | | | |

Maximum Allowable Ripple Current (mArms) at 105°C 100kHz

Case Size Φ D x L (mm)

Maximum Impedance (Ω) at 20°C 100kHz

RIPPLE CURRENT MULTIPLIER

Frequency Coefficient

| Coefficient Cap. (μF) | Freq. (Hz) | Coefficient | | | |
|--------------------------|------------|-------------|------|------|------|
| | | 120 | 1k | 10k | 100k |
| ≤180 | | 0.40 | 0.75 | 0.90 | 1.00 |
| 220~560 | | 0.50 | 0.85 | 0.94 | 1.00 |
| 680~1800 | | 0.60 | 0.87 | 0.95 | 1.00 |
| 2200~3900 | | 0.75 | 0.90 | 0.95 | 1.00 |
| 4700 | | 0.85 | 0.95 | 0.98 | 1.00 |

Specifications are subject to change without notice. Should a safety or technical concern arise regarding the product, please be sure to contact our sales offices or agents immediately.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Aluminium Electrolytic Capacitors - Radial Leaded](#) category:

Click to view products by [Man Yue](#) manufacturer:

Other Similar products are found below :

[LXY50VB4.7M-5X11](#) [RFO-100V471MJ7P#](#) [ECE-A1EGE220](#) [1814181](#) [NCD681K10KVY5PF](#) [NEV1000M25EF-BULK](#) [NEV100M35DC](#)
[NEV100M63DE](#) [NEV220M25DD-BULK](#) [NEV.33M100AA](#) [NEV4700M50HB](#) [NEV.47M100AA](#) [NEVH1.0M250AB](#) [NEVH3.3M250BB](#)
[NEVH3.3M450CC](#) [KME50VB100M-8X11.5](#) [SG220M1CSA-0407](#) [ES5107M016AE1DA](#) [ESX472M16B](#) [476CKH100MSA](#) [477RZS050M](#)
[UVX1V101KPA1FA](#) [UVX1V222MHA1CA](#) [KME25VB100M-6.3X11](#) [VTL100S10](#) [VTL470S10](#) [511D336M250EK5D](#) [052687X](#) [ECE-](#)
[A1CF471](#) [EKXG451ELL820MM30S](#) [686CKR050M](#) [NRE-S560M16V6.3X7TBSTF](#) [ERZA630VHN182UP54N](#) [UPL1A331MPH](#)
[NEV1000M6.3DE](#) [NEV100M16CB](#) [NEV100M50DD-BULK](#) [NEV2200M16FF](#) [NEV220M50EE](#) [NEV2.2M50AA](#) [NEV330M63EF](#)
[NEV4700M35HI](#) [NEV4.7M100BA](#) [NEV47M16BA](#) [NEV47M50CB-BULK](#) [NEVH1.0M350AB](#) [NEVH2.2M160AB](#) [NEVH3.3M350BC](#)
[TER330M50GM](#) [477KXM035MGBWSA](#)