

Overview

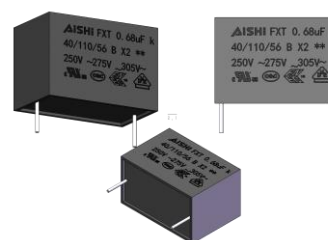
The FXT series is constructed of metallized polypropylene film encapsulated with self-extinguishing resin in a box of material meeting the requirement of UL94V-0. These FXT series robustness design is suitable for high humidity and high temperature environmental and compliant to THB Grade IIIB.

Applications

Interference suppression, across-the-line capacitor, EMI filter and spark-killer in class X2 applications. Suitable for use in situations where failure of the capacitor would not lead to danger of electric shock.

Features

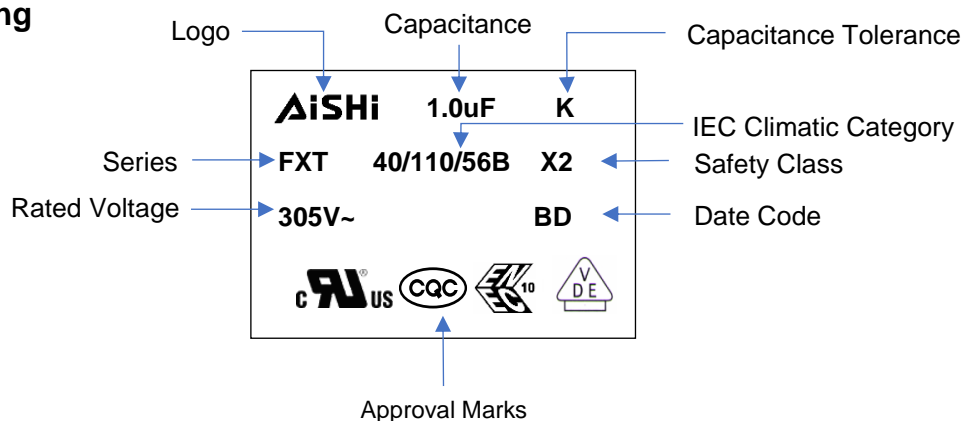
- High stability of capacitance
- High temperature (110°C)
- Self-healing property
- Over voltage stress withstanding
- Flame-retardant plastic case and resin
- Suitable for harsh environment conditions
- THB Grade IIIB
(85°C 85%RH 1.0Un for 1000 hours)



Approvals

| Marking | Standard | File Number |
|---------|--|----------------|
| | UL 60384-14 CAN/CSA-E60384-14 | E500538 |
| | IEC 60384-14:2013 IEC 60384-14:2013/AMD1:2016 | 40051583 |
| | IEC 60384-14 GB/T6346.14-2015 | CQC20001245437 |

Marking



Manufacturing Date Code

| Year | Code | Month | Code |
|------|------|-------|------|
| 2018 | A | Jan | 1 |
| 2019 | B | Feb | 2 |
| 2020 | C | Mar | 3 |
| 2021 | D | Apr | 4 |
| 2022 | E | May | 5 |
| 2023 | F | Jun | 6 |

| Year | Code | Month | Code |
|------|------|-------|------|
| 2024 | G | Jul | 7 |
| 2025 | H | Aug | 8 |
| 2026 | J | Sep | 9 |
| 2027 | K | Oct | A |
| 2028 | L | Nov | N |
| 2029 | M | Dec | D |

Part Number System

| F | XT | 30 | K | 105 | G18 | 2GL | 5 |
|----------------|----------------------------------|---------------|---------------------------------|---|--------------------------|------------------------------|----------------------------|
| Capacitor Type | Series | Voltage (VAC) | Tolerance | Capacitance (pF) | Size Code | Terminal Code | Lead Length Code |
| F = Film | X2, THB Type, Metallized PP Film | 305 | J = ±5% K = ±10% M = ±20% | First two digits = significant figures. Third digit = Number of zeros. | Refer to Size Code Table | Refer to Terminal Code Table | Refer to Lead Length Table |

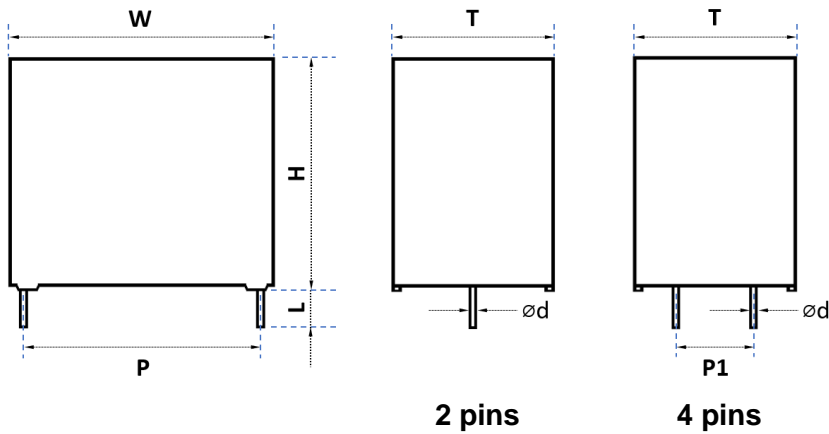
Terminal Code

| Digit One (Lead/Terminal Type) | Digit Two (Lead Space) | Digit Three (Lead Ipsilateral) |
|--------------------------------|------------------------|--------------------------------|
| 2 leads for long | L | 10.0mm C |
| 2 leads for straight cut | 2 | 12.5mm D |
| 2 leads for forming cut | E | 15.0mm E |
| 4 leads for straight cut | 4 | 22.5mm F |
| Taping | T | 27.5mm G |
| Taping Straight | V | 37.5mm K |
| | | 57.5mm M |
| | | N/A N |

Lead Length Code

| Lead Length | Code |
|-------------|------|
| 20mm min | L |
| 35mm min | B |
| 3.2mm | 1 |
| 3.5mm | 2 |
| 3.0mm | 3 |
| 4.0mm | 4 |
| 5.0mm | 5 |
| 7.0mm | 7 |
| Taping | T |
| N/A | N |

Dimension (mm)



Size Code Table (mm)

| Size Code | Dimension | | | | | | Pitch | | Lead Wire | |
|-----------|-----------|-----------|------|-----------|------|-----------|-------|-----------|-----------|-----------|
| | W | Tolerance | H | Tolerance | T | Tolerance | P | Tolerance | Ød | Tolerance |
| C13 | 13.0 | 0.5 | 11.0 | 0.5 | 5.0 | 0.5 | 10.0 | 0.5 | 0.6 | 0.05 |
| C16 | 13.0 | 0.5 | 12.0 | 0.5 | 6.0 | 0.5 | 10.0 | 0.5 | 0.6 | 0.05 |
| C26 | 13.0 | 0.5 | 14.0 | 0.5 | 8.0 | 0.5 | 10.0 | 0.5 | 0.6 | 0.05 |
| E17 | 18.0 | 0.5 | 12.0 | 0.5 | 6.0 | 0.5 | 15.0 | 0.5 | 0.6 | 0.05 |
| E21 | 18.0 | 0.5 | 13.0 | 0.5 | 7.0 | 0.5 | 15.0 | 0.5 | 0.6 | 0.05 |
| E34 | 18.0 | 0.5 | 14.5 | 0.5 | 8.5 | 0.5 | 15.0 | 0.5 | 0.8 | 0.05 |
| E43 | 18.0 | 0.5 | 16.0 | 0.5 | 10.0 | 0.5 | 15.0 | 0.5 | 0.8 | 0.05 |
| E47 | 18.0 | 0.5 | 19.0 | 0.5 | 11.0 | 0.5 | 15.0 | 0.5 | 0.8 | 0.05 |
| E52 | 18.0 | 0.5 | 22.0 | 0.5 | 12.5 | 0.5 | 15.0 | 0.5 | 0.8 | 0.05 |
| F17 | 26.0 | 0.5 | 16.5 | 0.5 | 7.0 | 0.5 | 22.5 | 0.5 | 0.8 | 0.05 |
| F20 | 26.0 | 0.5 | 17.0 | 0.5 | 8.5 | 0.5 | 22.5 | 0.5 | 0.8 | 0.05 |
| F24 | 26.0 | 0.5 | 19.0 | 0.5 | 10.0 | 0.5 | 22.5 | 0.5 | 0.8 | 0.05 |
| F26 | 26.0 | 0.5 | 20.0 | 0.5 | 11.0 | 0.5 | 22.5 | 0.5 | 0.8 | 0.05 |
| F27 | 26.0 | 0.5 | 22.0 | 0.5 | 12.0 | 0.5 | 22.5 | 0.5 | 0.8 | 0.05 |
| F29 | 26.0 | 0.5 | 23.0 | 0.5 | 13.0 | 0.5 | 22.5 | 0.5 | 0.8 | 0.05 |
| F32 | 26.0 | 0.5 | 24.0 | 0.5 | 14.0 | 0.5 | 22.5 | 0.5 | 0.8 | 0.05 |
| F36 | 26.0 | 0.5 | 25.0 | 0.5 | 15.0 | 0.5 | 22.5 | 0.5 | 0.8 | 0.05 |
| G18 | 32.0 | 0.8 | 20.0 | 0.8 | 11.0 | 0.8 | 27.5 | 0.5 | 0.8 | 0.05 |
| G21 | 32.0 | 0.8 | 22.0 | 0.8 | 13.0 | 0.8 | 27.5 | 0.5 | 0.8 | 0.05 |
| G22 | 32.0 | 0.8 | 24.5 | 0.8 | 13.0 | 0.8 | 27.5 | 0.5 | 0.8 | 0.05 |
| G26 | 32.0 | 0.8 | 28.0 | 0.8 | 14.0 | 0.8 | 27.5 | 0.5 | 0.8 | 0.05 |
| G34 | 32.0 | 0.8 | 33.0 | 0.8 | 18.0 | 0.8 | 27.5 | 0.5 | 0.8 | 0.05 |
| G40 | 32.0 | 0.8 | 37.0 | 0.8 | 22.0 | 0.8 | 27.5 | 0.5 | 0.8 | 0.05 |
| K21 | 42.5 | 0.8 | 32.0 | 0.8 | 19.0 | 0.8 | 37.5 | 0.5 | 1 | 0.05 |
| K32 | 42.5 | 0.8 | 44.0 | 0.8 | 24.0 | 0.8 | 37.5 | 0.5 | 1 | 0.05 |
| K42 | 42.5 | 0.8 | 45.0 | 0.8 | 30.0 | 0.8 | 37.5 | 0.5 | 1 | 0.05 |
| M16 | 57.5 | 1.0 | 45.0 | 1.0 | 30.0 | 1.0 | 52.5 | 0.5 | 1.2 | 0.05 |
| M20 | 57.5 | 1.0 | 50.0 | 1.0 | 35.0 | 1.0 | 52.5 | 0.5 | 1.2 | 0.05 |
| M33 | 57.5 | 1.0 | 60.0 | 1.0 | 45.0 | 1.0 | 52.5 | 0.5 | 1.2 | 0.05 |


Rating and Part Number

| Vac | Vdc | Cap Value μF | Dimensions | | | | Peak Current A | Surge Current A | dv/dt V/us | Lead Wire mm | Part Number |
|-----|-----|-----------------|------------|---------|---------|---------|-------------------|--------------------|---------------|-----------------|------------------|
| | | | W mm | H mm | T mm | P mm | | | | | |
| 305 | 630 | 0.1 | 18.0 | 12.0 | 6.0 | 15.0 | 40 | 120 | 400 | 0.6 | FXT30K104E172EL5 |
| 305 | 630 | 0.15 | 18.0 | 12.0 | 6.0 | 15.0 | 60 | 180 | 400 | 0.6 | FXT30K154E172EL5 |
| 305 | 630 | 0.15 | 18.0 | 13.0 | 7.0 | 15.0 | 60 | 180 | 400 | 0.8 | FXT30K154E212EL5 |
| 305 | 630 | 0.22 | 18.0 | 14.0 | 8.0 | 15.0 | 88 | 264 | 400 | 0.8 | FXT30K224E312EL5 |
| 305 | 630 | 0.27 | 18.0 | 14.5 | 8.5 | 15.0 | 108 | 324 | 400 | 0.8 | FXT30K274E342EL5 |
| 305 | 630 | 0.33 | 18.0 | 16.0 | 10.0 | 15.0 | 132 | 396 | 400 | 0.8 | FXT30K334E432EL5 |
| 305 | 630 | 0.47 | 18.0 | 19.0 | 11.0 | 15.0 | 188 | 564 | 400 | 0.8 | FXT30K474E472EL5 |
| 305 | 630 | 0.56 | 18.0 | 18.0 | 10.0 | 15.0 | 224 | 672 | 400 | 0.8 | FXT30K564E452EL5 |
| 305 | 630 | 0.68 | 18.0 | 22.0 | 12.5 | 15.0 | 272 | 816 | 400 | 0.8 | FXT30K684E522EL5 |
| 305 | 630 | 0.82 | 18.0 | 22.0 | 12.5 | 15.0 | 328 | 984 | 400 | 0.8 | FXT30K824E522EL5 |
| 305 | 630 | 0.22 | 26.0 | 16.5 | 7.0 | 22.5 | 44 | 132 | 200 | 0.8 | FXT30K224F172FL5 |
| 305 | 630 | 0.27 | 26.0 | 16.5 | 7.0 | 22.5 | 54 | 162 | 200 | 0.8 | FXT30K274F172FL5 |
| 305 | 630 | 0.33 | 26.0 | 17.0 | 8.5 | 22.5 | 66 | 198 | 200 | 0.8 | FXT30K334F202FL5 |
| 305 | 630 | 0.47 | 26.0 | 19.0 | 10.0 | 22.5 | 94 | 282 | 200 | 0.8 | FXT30K474F242FL5 |
| 305 | 630 | 0.56 | 26.0 | 19.0 | 10.0 | 22.5 | 112 | 336 | 200 | 0.8 | FXT30K564F242FL5 |
| 305 | 630 | 0.68 | 26.0 | 20.0 | 11.0 | 22.5 | 136 | 408 | 200 | 0.8 | FXT30K684F262FL5 |
| 305 | 630 | 0.82 | 26.0 | 20.0 | 11.0 | 22.5 | 164 | 492 | 200 | 0.8 | FXT30K824F262FL5 |
| 305 | 630 | 1.00 | 26.0 | 22.0 | 12.0 | 22.5 | 200 | 600 | 200 | 0.8 | FXT30K105F272FL5 |
| 305 | 630 | 1.20 | 26.0 | 23.0 | 13.0 | 22.5 | 240 | 720 | 200 | 0.8 | FXT30K125F292FL5 |
| 305 | 630 | 1.50 | 26.0 | 24.0 | 14.0 | 22.5 | 300 | 900 | 200 | 0.8 | FXT30K155F322FL5 |
| 305 | 630 | 1.50 | 26.0 | 25.0 | 15.0 | 22.5 | 300 | 900 | 200 | 0.8 | FXT30K155F362FL5 |
| 305 | 630 | 1.00 | 32.0 | 20.0 | 11.0 | 27.5 | 150 | 450 | 150 | 0.8 | FXT30K105G182GL5 |
| 305 | 630 | 1.20 | 32.0 | 22.0 | 13.0 | 27.5 | 180 | 540 | 150 | 0.8 | FXT30K125G212GL5 |
| 305 | 630 | 1.50 | 32.0 | 24.5 | 13.0 | 27.5 | 225 | 675 | 150 | 0.8 | FXT30K155G222GL5 |
| 305 | 630 | 2.20 | 32.0 | 28.0 | 14.0 | 27.5 | 330 | 990 | 150 | 0.8 | FXT30K225G262GL5 |
| 305 | 630 | 3.30 | 32.0 | 33.0 | 18.0 | 27.5 | 495 | 1485 | 150 | 0.8 | FXT30K335G342GL5 |
| 305 | 630 | 4.70 | 32.0 | 37.0 | 22.0 | 27.5 | 705 | 2115 | 150 | 0.8 | FXT30K475G402GL5 |
| 305 | 630 | 4.70 | 42.5 | 32.0 | 19.0 | 37.5 | 470 | 1410 | 100 | 1.0 | FXT30K475K212KL5 |
| 305 | 630 | 6.80 | 42.5 | 44.0 | 24.0 | 37.5 | 680 | 2040 | 100 | 1.0 | FXT30K685K322KL5 |
| 305 | 630 | 10.00 | 42.5 | 45.0 | 30.0 | 37.5 | 1000 | 3000 | 100 | 1.0 | FXT30K106K422KL5 |
| 305 | 630 | 12.00 | 42.5 | 45.0 | 30.0 | 37.5 | 1200 | 3600 | 100 | 1.0 | FXT30K126K422KL5 |
| 305 | 630 | 12.00 | 57.5 | 45.0 | 30.0 | 52.5 | 960 | 2880 | 80 | 1.2 | FXT30K126M162KL5 |
| 305 | 630 | 15.00 | 42.5 | 45.0 | 30.0 | 37.5 | 1500 | 4500 | 100 | 1.0 | FXT30K156K422KL5 |
| 305 | 630 | 15.00 | 57.5 | 45.0 | 30.0 | 52.5 | 1200 | 3600 | 80 | 1.2 | FXT30K156M162ML5 |
| 305 | 630 | 18.00 | 57.5 | 45.0 | 30.0 | 52.5 | 1440 | 4320 | 80 | 1.2 | FXT30K186M162ML5 |
| 305 | 630 | 20.00 | 57.5 | 45.0 | 30.0 | 52.5 | 1600 | 4800 | 80 | 1.2 | FXT30K206M162ML5 |

General Technical Data

| | |
|-----------------------------|--|
| Application | Interference suppression \ Across-the-line (Class X2) |
| Dielectric | Metallized Polypropylene Film |
| Reference Standard | IEC 60384-14 / EN 60384-14 / UL 60384-14 |
| Climatic Category | 40/110/56 IEC60068-1 |
| Passive Flammability Class | B |
| Operating Temperature Range | -40°C ~ +110°C (85°C ~110°C, decreasing factor 1.25% per °C for Urms) |
| Protection | Solvent resistant plastic case UL94 V-0 Thermosetting resin sealing UL 94 V-0 compliant |
| Installation | Any position |
| Packaging | Packed in cardboard boxes with protection for the terminals |
| Storage Conditions | Storage time: ≤24months from the date marked on the label package Average relative humidity per year ≤70% RH≤85% for 30 days randomly distributed throughout the year Dew is absent Temperature: -40°C ~ +85°C |
| Storage Life | Product that passed less than 2 years from production, No need reconfirmation |
| RoHS Compliant | Compliant with the restricted substance requirements of Directive 2011/65/EU |
| Flame Retardant Grade | Flame retardant performance accords with horizontal combustion grade HB and vertical combustion grade V-0. |

Construction

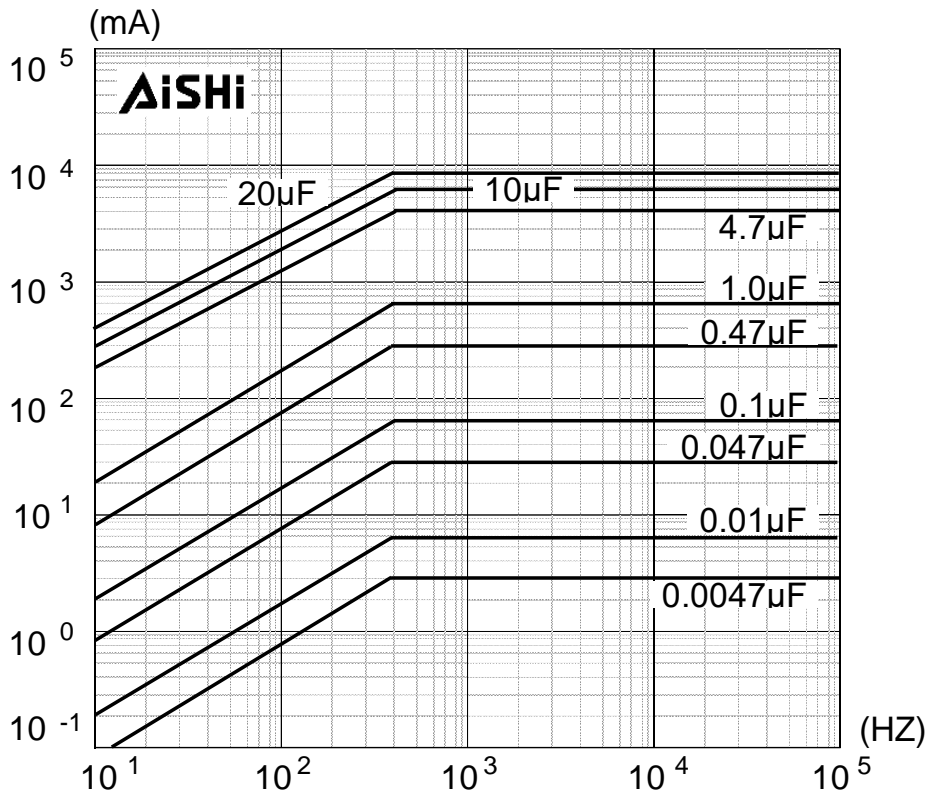
| | |
|----------------------|--|
| Metallized Film | OPP & Al/Zn |
| Metal Sprayed | Sn/Zn Alloy |
| Connection Electrode | Copper clad steel wire or Tinned copper wires |
| Case | Plastic Case (UL94V-0) |
| Filling | Epoxy Resin (UL94V-0) |
| Film Construction | <p>Mono Structure</p>  |

Electrical Characteristics

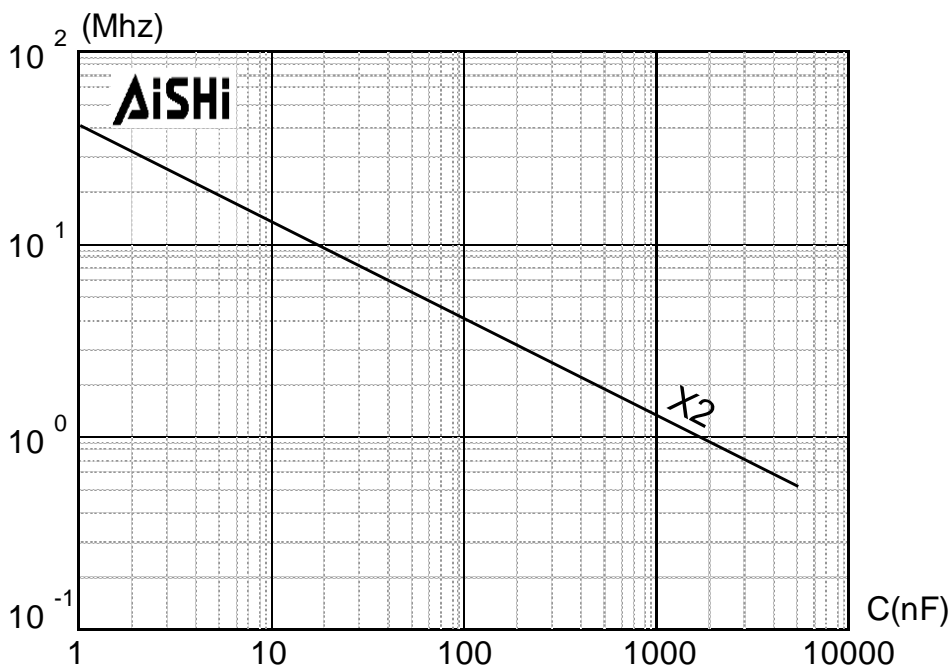
| | |
|---|--|
| Voltage Range | 250Vac ~ 305Vac |
| Capacitance Range | 0.01 μ F to 45.0 μ F |
| Capacitance Tolerance | \pm 10% or \pm 20% at +25°C |
| Capacitance | Measuring Frequency at 1kHz Measuring Voltage: 1 ± 0.2 V |
| Standard Atmospheric Conditions for Static Test | Ambient temperature 15°C to 35°C (If there is any doubt on the results, the measurements shall be made at +20 +/- 5°C) Relative humidity 45% to 75% (If there is any doubt on the results, the measurements shall be made at 60% to 70 %.) Air pressure 86 kPa to 106 kPa. |
| Voltage Between Terminals U_{TT} | DC Voltage: 1312VDC for 60 seconds or 2000VDC for 2 seconds, charge current must be 1A max. Withstanding (DC) voltage (cut off current 10mA), rise time 100V/S. AC Voltage: 1000VAC for 60 seconds |
| Voltage Between Terminals And Case U_{TC} | 2150VAC, 60s (at+20+/-2°C) |
| Dielectric Dissipation Factor $Tg\delta_0$ | $\leq 2 \times 10^{-4}$ |
| Dissipation Factor | 0.0010 (20°C, 1KHz) |
| Insulation Resistance | R between leads, for $C \leq 0.33 \mu F$ at 100 V; 1 min > 15 000 M Ω RC between leads, for $C > 0.33 \mu F$ at 100 V; 1 min > 5000 M Ω * μ F |
| Hot-Spot | $\leq 85^\circ C$ |
| Life Expectancy | 100 000hours (UR, $\Theta_{hotspot}=85^\circ C$) |
| Failure Rate | 100 Fit |
| Max. Altitude | 2000 m |

Characteristics Curve

Maximum Current (I_{rms}) Vs Frequency

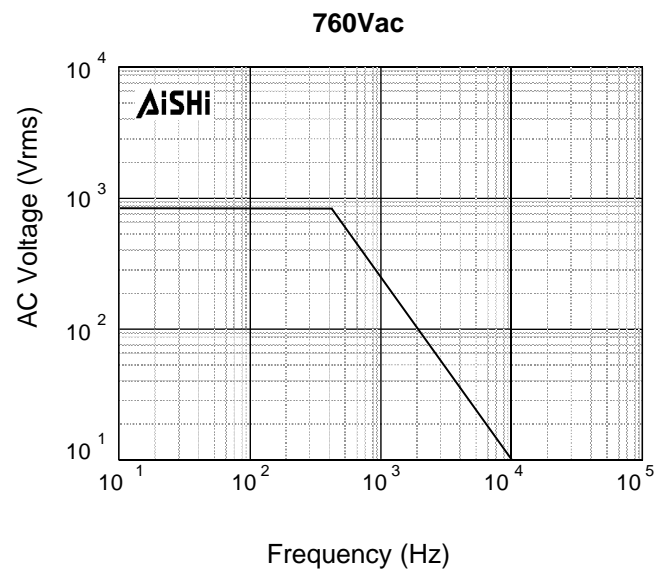
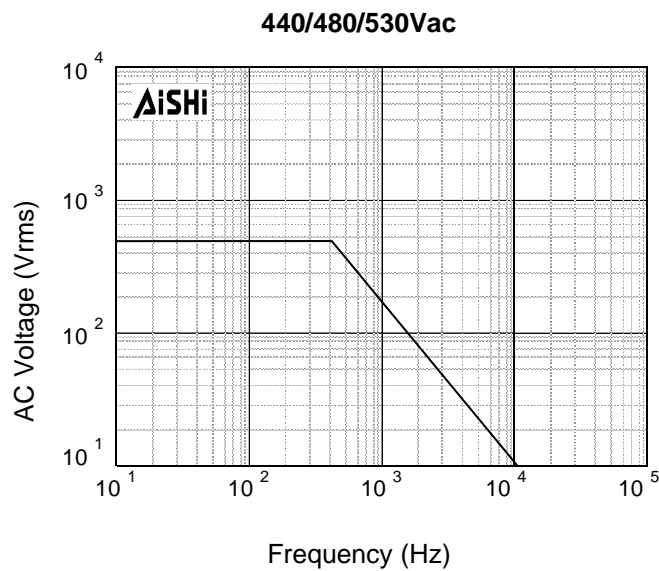
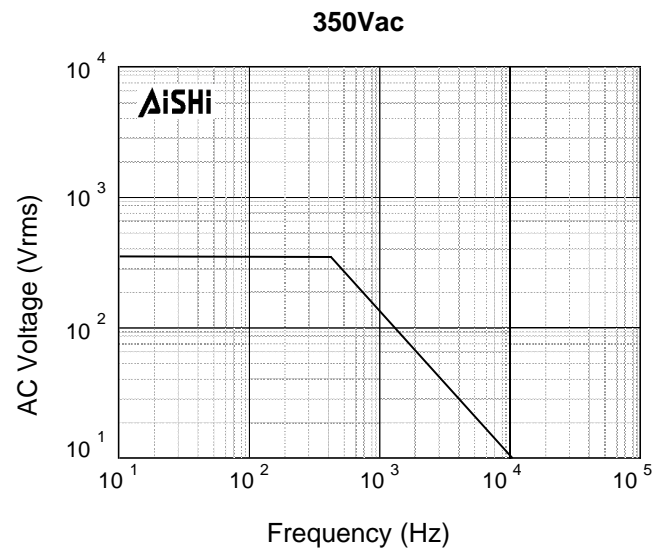
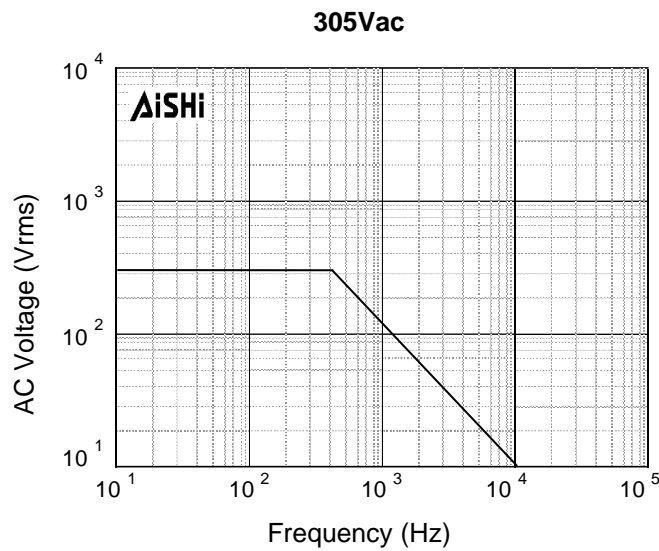


Resonant VS Capacitance

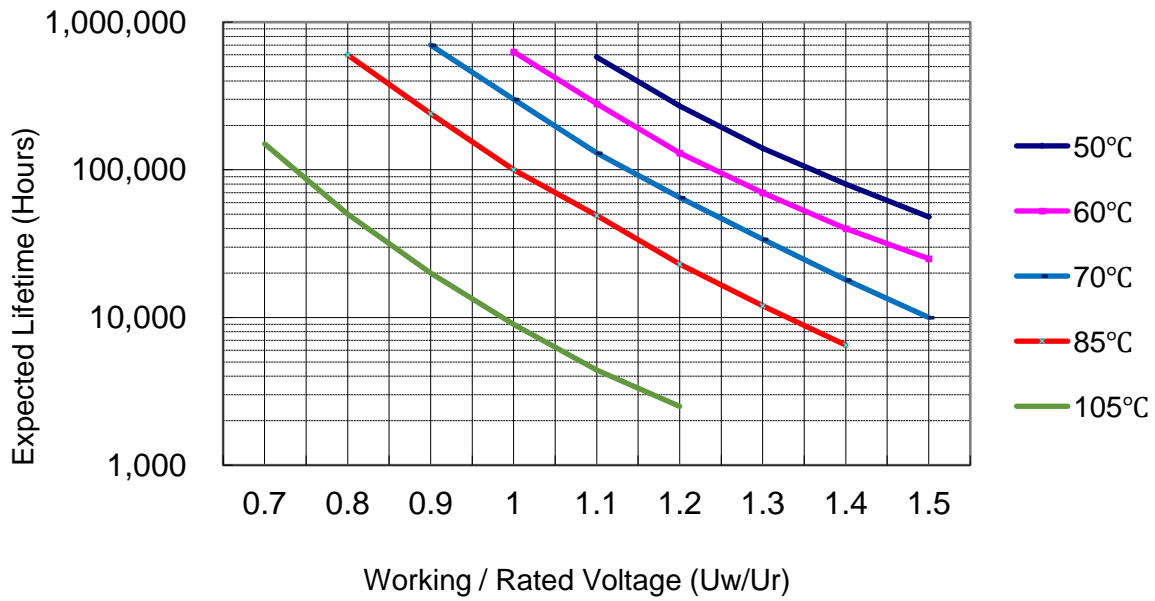


Characteristics Curve

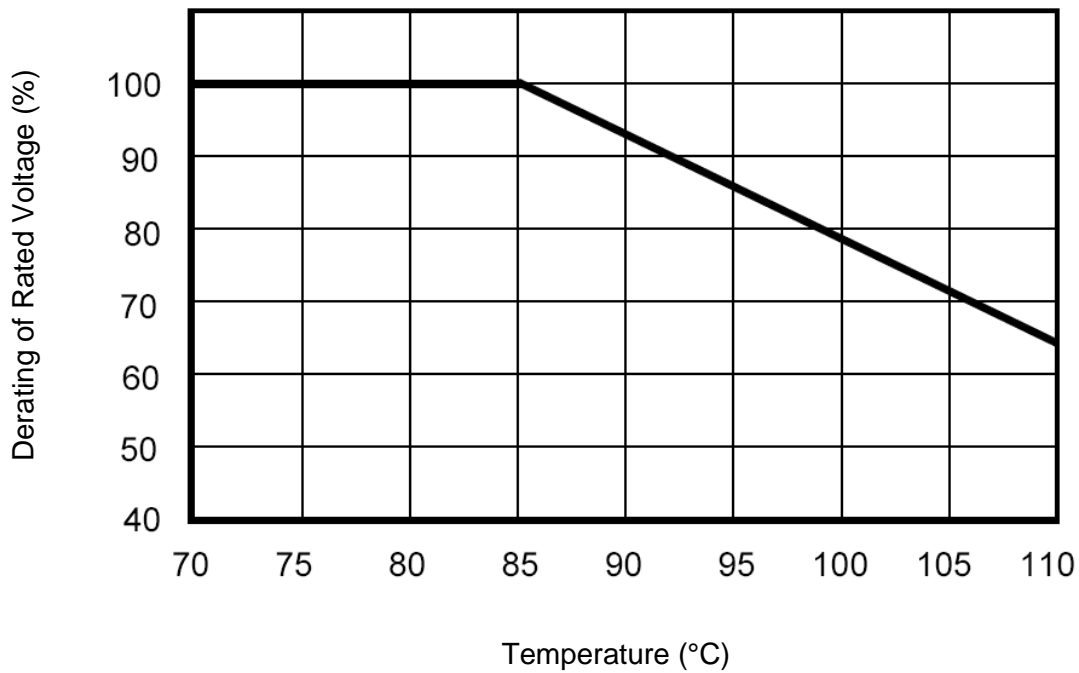
Maximum Voltage (V_{rms}) Versus Frequency



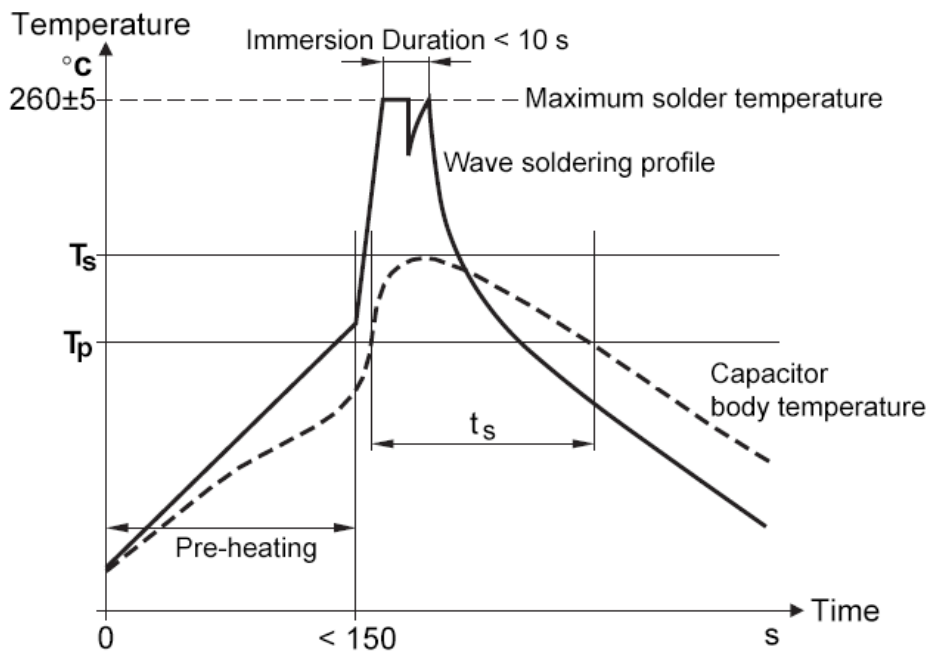
Expected Life Curve



Derating of Rated Voltage Vs Temperature



Wave Soldering Recommendations

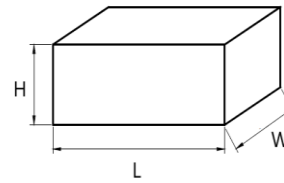


Ts: Capacitor body maximum temperature at wave soldering
 Tp: Capacitor body maximum temperature at pre-heating

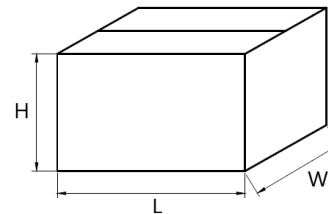
| Polypropylene Capacitors | Polyester Capacitors |
|--|--|
| During pre-heating: Tp≤110°C During soldering: Ts ≤120°C, ts≤60 | During pre-heating: Tp≤130°C During soldering: Ts≤160°C, ts≤60s |

Packaging Information

| Inner Box Specifications (Dimensions) | | | |
|---------------------------------------|--------|-------|--------|
| Box # | L ±3mm | W±3mm | H ±3mm |
| # 1 | 331 | 331 | 25 |
| # 2 | 331 | 331 | 35 |
| # 3 | 331 | 331 | 50 |
| # 4 | 331 | 331 | 80 |
| # 5 | 350 | 170 | 35 |
| # 6 | 350 | 170 | 50 |
| # 7 | 350 | 170 | 80 |



| Outer Box Specifications (Dimensions) | | | |
|---------------------------------------|--------|-------|--------|
| Box # | L ±5mm | W±5mm | H ±5mm |
| # 1 | 350 | 340 | 265 |
| # 2 | 370 | 360 | 350 |



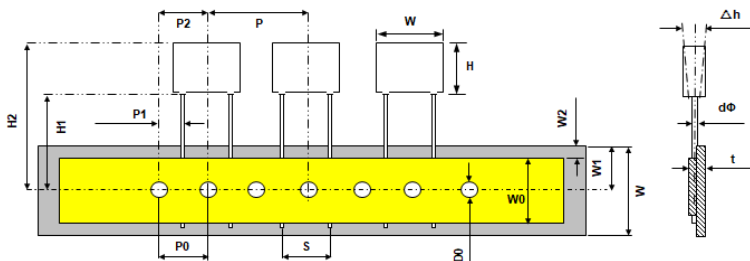
Packaging Quantity

| P | Code | W | H | T | Long Leads | Short Leads | Ammo |
|------|------|------|------|------|------------|-------------|------|
| 10.0 | C13 | 13.0 | 11.0 | 5.0 | 1200 | 1426 | 600 |
| | C16 | 13.0 | 12.0 | 6.0 | 1200 | 1173 | 500 |
| | C26 | 13.0 | 14.0 | 8.0 | 1200 | 874 | 370 |
| 15.0 | E17 | 18.0 | 12.0 | 6.0 | 800 | 867 | 500 |
| | E21 | 18.0 | 13.0 | 7.0 | 800 | 748 | 420 |
| | E34 | 18.0 | 14.5 | 8.5 | 600 | 612 | 350 |
| | E43 | 18.0 | 16.0 | 10.0 | 600 | 527 | 300 |
| | E47 | 18.0 | 19.0 | 11.0 | 600 | 476 | 270 |
| | E52 | 18.0 | 22.0 | 12.5 | 600 | 408 | 240 |
| 22.5 | F17 | 26.0 | 16.5 | 7.0 | 600 | 528 | 252 |
| | F20 | 26.0 | 17.0 | 8.5 | 600 | 432 | 210 |
| | F24 | 26.0 | 19.0 | 10.0 | 400 | 372 | 180 |
| | F26 | 26.0 | 20.0 | 11.0 | 400 | 336 | 162 |
| | F27 | 26.0 | 22.0 | 12.0 | 400 | 300 | 150 |
| | F29 | 26.0 | 23.0 | 13.0 | 400 | 276 | 138 |
| | F32 | 26.0 | 24.0 | 14.0 | 400 | 264 | 126 |
| | F36 | 26.0 | 25.0 | 15.0 | 400 | 240 | 120 |
| 27.5 | G18 | 32.0 | 20.0 | 11.0 | 200 | 252 | 162 |
| | G21 | 32.0 | 22.0 | 13.0 | 200 | 207 | 138 |
| | G22 | 32.0 | 24.5 | 13.0 | 200 | 207 | 138 |
| | G26 | 32.0 | 28.0 | 14.0 | 200 | 198 | 126 |
| | G34 | 32.0 | 33.0 | 18.0 | 100 | 153 | 96 |
| | G40 | 32.0 | 37.0 | 22.0 | 100 | 126 | 78 |
| 37.5 | K21 | 42.5 | 32.0 | 19.0 | | 112 | |
| | K32 | 42.5 | 44.0 | 24.0 | | 91 | |
| | K42 | 42.5 | 45.0 | 30.0 | | 70 | |
| 52.5 | M16 | 57.5 | 45.0 | 30.0 | | 50 | |

Lead Taping Information

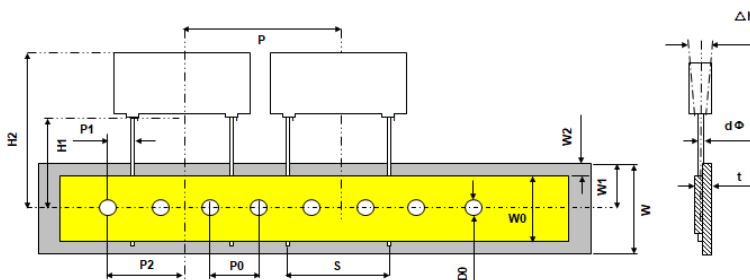
Taping Style: Straight leads

Lead spacing: 10 - 15mm



Quantity: 10pcs / line

Lead spacing: 22.5mm



Quantity: 6pcs / line

Taping Specification

| Description | Symbol | Dimension (mm) | | | | Tolerance |
|--------------------------------------|--------|----------------|------|------|------|-----------|
| Lead Spacing | S | 10.0 | 12.5 | 15.0 | 22.5 | +0.8/-0.2 |
| Taping Pitch | P | 25.4 | 25.4 | 25.4 | 38.0 | ±1.0 |
| Feed Hole Pitch | P0 | 12.7 | 12.7 | 12.7 | 12.7 | ±0.2 |
| Centering of Lead Wire | P1 | 7.7 | 6.5 | 5.2 | 7.80 | ±0.7 |
| Centering of Body | P2 | 12.7 | 12.7 | 12.7 | 19.1 | ±1.3 |
| Carrier Tape Width | W | 18.0 | 18.0 | 18.0 | 18.0 | ±0.5 |
| Hold Down Tape Width | W0 | 9.5 | 9.5 | 9.5 | 9.5 | minimum |
| Hole Position | W1 | 9.0 | 9.0 | 9.0 | 9.0 | ±0.5 |
| Hold Down Tape Position | W2 | 3.0 | 3.0 | 3.0 | 3.0 | maximum |
| Feed Hole Diameter | D0 | 4.0 | 4.0 | 4.0 | 4.0 | ±0.2 |
| Height of Component From Tape Center | H1 | 20.0 | 20.0 | 20.0 | 20.0 | ±0.5 |
| Top Edge of Component | H2 | 39.0 | 39.0 | 39.0 | 44.0 | maximum |
| Lead Wire Diameter | d | 0.6 | 0.8 | 0.8 | 0.8 | ±0.1 |
| Component Alignment | Δh | 0.0 | 0.0 | 0.0 | 0.0 | ±2.0 |
| Tape Thickness | t | 0.7 | 0.7 | 0.7 | 0.7 | ±0.2 |

Cautions and Warnings

- Don't exceed the upper category temperature.
- For longtime storage, maximum relative humidity 80%, no dew allowed on the capacitor.
- Do not use or store capacitor in corrosive atmosphere, in the dusty environment's regular maintenance and cleaning especially of the terminals is required to avoid conductive path between terminal / or terminal and ground.
- Don't apply any mechanical stress to the capacitor terminals, and avoid any compressive, tensile or flexural stress.
- Don't move the capacitor after fixed to the PC board, and don't pick up the PC board by the fixed capacitor.
- Don't place the capacitor on a PC board whose holes pitch differs from the specified space.
- Avoid overload of the capacitors
- Do not have unlimited service life expectancy, the max service life expectancy may vary depending on the application the capacitor is used in.

Disclaimer

All product, product specifications and data in this datasheet are subject to change without notice to improve reliability, function or design or otherwise. The customer is responsible for checking and verifying the extent to which the Information contained in this publication is applicable to an order at the time the order is placed. All Information given herein is believed to be accurate and reliable, but it is presented without guarantee, warranty, or responsibility of any kind, expressed or implied.

In individual cases, a malfunction of electronic components or failure before the end of their usual service life cannot be completely ruled out in the current state of the art, even if they are operated as specified. In customer application requiring a very high level of operational safety and especially in customer applications in which the malfunction or failure of an electronic component could endanger human life or health (e.g. in accident prevention or lifesaving systems), it must therefore be ensured by means of suitable design of the customer application or other action taken by the customer (e.g. installation of protective circuitry or redundancy) that no injury or damage is sustained by third parties in the event of malfunction or failure of an electronic component.

We continue efforts to improve our products. Therefore, the products described in this publication may change from time to time. The same is true of the corresponding product specifications. Please check therefore to what extent product descriptions and specifications contained in this publication are still applicable before or when you place an order. We also reserve the right to discontinue production and delivery of products. Consequently, we cannot guarantee that all products named in this publication will always be available.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Aishi. Product names and markings noted herein may be trademarks of their respective owners.