

### Overview

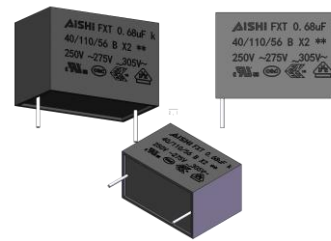
The FXT series is constructed of metallized polypropylene film encapsulated with self-extinguishing resin in a box of material meeting the requirement of UL94V-0. The FXT series robustness design is suitable for high humidity and high temperature environmental and compliant to THB Grade IIIB.

### 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

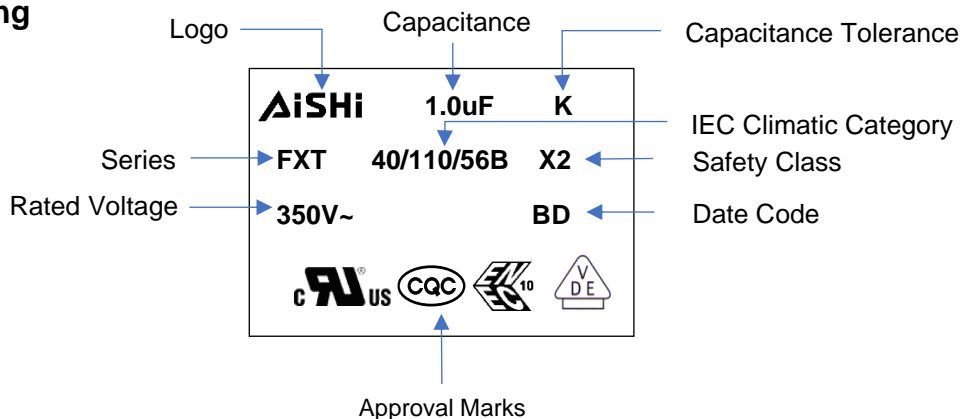
- High stability of capacitance
- High temperature (110°C)
- Self-healing property
- Over voltage stress withstanding
- Flame-retardant plastic case and resin
- Suitable for harsh environment conditions
- THB Grade IIIB  
(85°C 85%RH 1.0Un for 1000 hours)



### Approvals

| Marking | Standard   | File Number  |
|---------|--|--|
|         | UL 60384-14<br>CAN/CSA-E60384-14                 | E500538  |
|         | IEC 60384-14:2013<br>IEC 60384-14:2013/AMD1:2016 | 40052137   |
|         | IEC 60384-14<br>GB/T6346.14-2015                 | CQC20001281016 (350Vac~480Vac)<br>CQC20001281018 (530Vac~760Vac) |

### 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                               | 35            | K                    | 105   | G21                      | 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 | 35 = 350      | K = ±10%<br>M = ±20% | First two digits = significant figures.<br>Third digit = Number of zeros. | Refer to Size Code Table | Refer to Terminal Code Table | Refer to Lead Length Table |

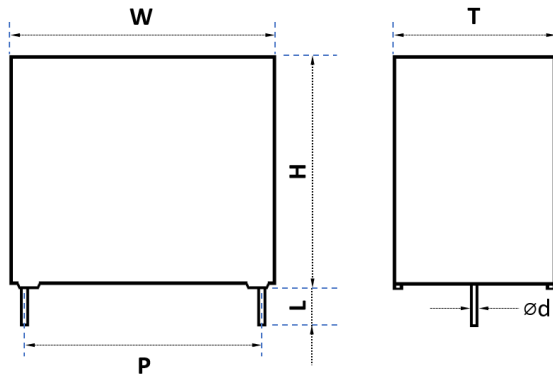
### Terminal Code

| Digit One (Lead/Terminal Type) |   | Digit Two (Lead Space) |   | Digit Three (Lead Ipsilateral) |   |
|--------------------------------|---|------------------------|---|--------------------------------|---|
| 2 leads for long               | L | 10.0mm                 | C | 5.1mm                          | A |
| 2 leads for straight cut       | 2 | 12.5mm                 | D | 7.5mm                          | C |
| 2 leads for forming cut        | E | 15.0mm                 | E | 10.2mm                         | B |
| 4 leads for straight cut       | 4 | 22.5mm                 | F | 12.7mm                         | G |
| Taping                         | T | 27.5mm                 | G | 20.3mm                         | D |
| Taping Straight                | V | 37.5mm                 | K | N/A                            | L |
|                                |   | 57.5mm                 | M |                                |   |
|                                |   | N/A                    | N |                                |   |

### Lead Length Code

| Lead Length |   |
|-------------|---|
| 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)**



**2 pins**

**Size Code Table (mm)**

| Size Code | Dimension |           |      |           |      |           | Pitch |           | Lead Wire |           |
|-----------|-----------|-----------|------|-----------|------|-----------|-------|-----------|-----------|-----------|
|           | W         | Tolerance | H    | Tolerance | T    | Tolerance | P     | Tolerance | Ød        | Tolerance |
| E29       | 18.0      | 0.5       | 13.5 | 0.5       | 7.5  | 0.5       | 15.0  | 0.5       | 0.8       | 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      |
| F14       | 26.0      | 0.5       | 15.5 | 0.5       | 6.0  | 0.5       | 22.5  | 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      |
| F34       | 26.0      | 0.5       | 29.5 | 0.5       | 14.5 | 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      |
| F54       | 26.0      | 0.5       | 31.0 | 0.5       | 15.5 | 0.5       | 22.5  | 0.5       | 0.8       | 0.05      |
| G15       | 32.0      | 0.8       | 18.0 | 0.8       | 9.0  | 0.8       | 27.5  | 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      |
| G26       | 32.0      | 0.8       | 28.0 | 0.8       | 14.0 | 0.8       | 27.5  | 0.5       | 0.8       | 0.05      |
| G27       | 32.0      | 0.8       | 24.5 | 0.8       | 15.0 | 0.8       | 27.5  | 0.5       | 0.8       | 0.05      |
| G33       | 32.0      | 0.8       | 28.0 | 0.8       | 18.0 | 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      |
| G68       | 32.0      | 0.8       | 38.0 | 0.8       | 24.0 | 0.8       | 27.5  | 0.5       | 0.8       | 0.05      |
| G69       | 32.0      | 0.8       | 22.0 | 0.8       | 11.0 | 0.8       | 27.5  | 0.5       | 0.8       | 0.05      |
| K10       | 42.5      | 0.8       | 22.0 | 0.8       | 11.0 | 0.8       | 37.5  | 0.5       | 1.0       | 0.05      |
| K11       | 42.5      | 0.8       | 24.0 | 0.8       | 13.0 | 0.8       | 37.5  | 0.5       | 1.0       | 0.05      |
| K13       | 42.5      | 0.8       | 26.0 | 0.8       | 15.0 | 0.8       | 37.5  | 0.5       | 1.0       | 0.05      |
| K14       | 42.5      | 0.8       | 30.0 | 0.8       | 16.0 | 0.8       | 37.5  | 0.5       | 1.0       | 0.05      |
| K21       | 42.5      | 0.8       | 32.0 | 0.8       | 19.0 | 0.8       | 37.5  | 0.5       | 1.0       | 0.05      |
| K27       | 42.5      | 0.8       | 37.0 | 0.8       | 22.0 | 0.8       | 37.5  | 0.5       | 1.0       | 0.05      |

**Rating and Part Number**

| Vac | Vdc | Cap Value<br>μF | Dimensions |         |         |         | Peak Current<br>A | Surge Current<br>A | dv/dt<br>V/us | Lead Wire<br>mm | Part Number      |
|-----|-----|-----------------|------------|---------|---------|---------|-------------------|--------------------|---------------|-----------------|------------------|
|     |     |                 | W<br>mm    | H<br>mm | T<br>mm | P<br>mm |                   |                    |               |                 |                  |
| 350 | 700 | 0.1             | 18.0       | 13.5    | 7.5     | 15.0    | 50                | 150                | 500           | 0.8             | FXT35K104E292EL5 |
| 350 | 700 | 0.12            | 18.0       | 13.5    | 7.5     | 15.0    | 60                | 180                | 500           | 0.8             | FXT35K124E292EL5 |
| 350 | 700 | 0.15            | 18.0       | 14.5    | 8.5     | 15.0    | 75                | 225                | 500           | 0.8             | FXT35K154E342EL5 |
| 350 | 700 | 0.18            | 18.0       | 14.5    | 8.5     | 15.0    | 90                | 270                | 500           | 0.8             | FXT35K184E342EL5 |
| 350 | 700 | 0.22            | 18.0       | 16.0    | 10.0    | 15.0    | 110               | 330                | 500           | 0.8             | FXT35K224E432EL5 |
| 350 | 700 | 0.27            | 18.0       | 16.0    | 10.0    | 15.0    | 135               | 405                | 500           | 0.8             | FXT35K274E432EL5 |
| 350 | 700 | 0.33            | 18.0       | 19.0    | 11.0    | 15.0    | 165               | 495                | 500           | 0.8             | FXT35K334E472EL5 |
| 350 | 700 | 0.1             | 26.0       | 15.5    | 6.0     | 22.5    | 40                | 120                | 400           | 0.8             | FXT35K104F142FL5 |
| 350 | 700 | 0.12            | 26.0       | 15.5    | 6.0     | 22.5    | 48                | 144                | 400           | 0.8             | FXT35K124F142FL5 |
| 350 | 700 | 0.15            | 26.0       | 16.5    | 7.0     | 22.5    | 60                | 180                | 400           | 0.8             | FXT35K154F172FL5 |
| 350 | 700 | 0.18            | 26.0       | 16.5    | 7.0     | 22.5    | 72                | 216                | 400           | 0.8             | FXT35K184F172FL5 |
| 350 | 700 | 0.22            | 26.0       | 16.5    | 7.0     | 22.5    | 88                | 264                | 400           | 0.8             | FXT35K224F172FL5 |
| 350 | 700 | 0.27            | 26.0       | 16.5    | 7.0     | 22.5    | 108               | 324                | 400           | 0.8             | FXT35K274F172FL5 |
| 350 | 700 | 0.33            | 26.0       | 17.0    | 8.5     | 22.5    | 132               | 396                | 400           | 0.8             | FXT35K334F202FL5 |
| 350 | 700 | 0.39            | 26.0       | 17.0    | 8.5     | 22.5    | 156               | 468                | 400           | 0.8             | FXT35M394F202FL5 |
| 350 | 700 | 0.39            | 26.0       | 19.0    | 10.0    | 22.5    | 156               | 468                | 400           | 0.8             | FXT35K394F242FL5 |
| 350 | 700 | 0.47            | 26.0       | 19.0    | 10.0    | 22.5    | 188               | 564                | 400           | 0.8             | FXT35K474F242FL5 |
| 350 | 700 | 0.56            | 26.0       | 19.0    | 10.0    | 22.5    | 224               | 672                | 400           | 0.8             | FXT35K564F242FL5 |
| 350 | 700 | 0.68            | 26.0       | 20.0    | 11.0    | 22.5    | 272               | 816                | 400           | 0.8             | FXT35M684F262FL5 |
| 350 | 700 | 0.68            | 26.0       | 22.0    | 12.0    | 22.5    | 272               | 816                | 400           | 0.8             | FXT35K684F272FL5 |
| 350 | 700 | 0.82            | 26.0       | 22.0    | 12.0    | 22.5    | 328               | 984                | 400           | 0.8             | FXT35K824F272FL5 |
| 350 | 700 | 1               | 26.0       | 23.0    | 13.0    | 22.5    | 400               | 1200               | 400           | 0.8             | FXT35K105F292FL5 |
| 350 | 700 | 1.2             | 26.0       | 25.0    | 15.0    | 22.5    | 480               | 1440               | 400           | 0.8             | FXT35K125F362FL5 |
| 350 | 700 | 1.5             | 26.0       | 29.5    | 14.5    | 22.5    | 600               | 1800               | 400           | 0.8             | FXT35K155F342FL5 |
| 350 | 700 | 1.8             | 26.0       | 31.0    | 15.5    | 22.5    | 720               | 2160               | 400           | 0.8             | FXT35K185F542FL5 |
| 350 | 700 | 0.22            | 32.0       | 18.0    | 9.0     | 27.5    | 44                | 132                | 200           | 0.8             | FXT35K224G152GL5 |
| 350 | 700 | 0.33            | 32.0       | 18.0    | 9.0     | 27.5    | 66                | 198                | 200           | 0.8             | FXT35K334G152GL5 |
| 350 | 700 | 0.39            | 32.0       | 18.0    | 9.0     | 27.5    | 78                | 234                | 200           | 0.8             | FXT35K394G152GL5 |
| 350 | 700 | 0.47            | 32.0       | 18.0    | 9.0     | 27.5    | 94                | 282                | 200           | 0.8             | FXT35K474G152GL5 |
| 350 | 700 | 0.56            | 32.0       | 18.0    | 9.0     | 27.5    | 112               | 336                | 200           | 0.8             | FXT35K564G152GL5 |
| 350 | 700 | 0.68            | 32.0       | 20.0    | 11.0    | 27.5    | 136               | 408                | 200           | 0.8             | FXT35K684G182GL5 |
| 350 | 700 | 0.82            | 32.0       | 20.0    | 11.0    | 27.5    | 164               | 492                | 200           | 0.8             | FXT35K824G182GL5 |
| 350 | 700 | 1               | 32.0       | 22.0    | 11.0    | 27.5    | 200               | 600                | 200           | 0.8             | FXT35M105G692GL5 |
| 350 | 700 | 1               | 32.0       | 22.0    | 13.0    | 27.5    | 200               | 600                | 200           | 0.8             | FXT35K105G212GL5 |
| 350 | 700 | 1.2             | 32.0       | 22.0    | 13.0    | 27.5    | 240               | 720                | 200           | 0.8             | FXT35K125G212GL5 |
| 350 | 700 | 1.5             | 32.0       | 24.5    | 15.0    | 27.5    | 300               | 900                | 200           | 0.8             | FXT35K155G272GL5 |
| 350 | 700 | 1.8             | 32.0       | 28.0    | 14.0    | 27.5    | 360               | 1080               | 200           | 0.8             | FXT35K185G262GL5 |
| 350 | 700 | 2.2             | 32.0       | 28.0    | 18.0    | 27.5    | 440               | 1320               | 200           | 0.8             | FXT35K225G332GL5 |
| 350 | 700 | 2.7             | 32.0       | 33.0    | 18.0    | 27.5    | 540               | 1620               | 200           | 0.8             | FXT35K275G342GL5 |
| 350 | 700 | 3.3             | 32.0       | 33.0    | 18.0    | 27.5    | 660               | 1980               | 200           | 0.8             | FXT35M335G342GL5 |
| 350 | 700 | 3.3             | 32.0       | 37.0    | 22.0    | 27.5    | 660               | 1980               | 200           | 0.8             | FXT35K335G402GL5 |
| 350 | 700 | 3.9             | 32.0       | 37.0    | 22.0    | 27.5    | 780               | 2340               | 200           | 0.8             | FXT35K395G402GL5 |
| 350 | 700 | 4.7             | 32.0       | 37.0    | 22.0    | 27.5    | 940               | 2820               | 200           | 0.8             | FXT35M475G402GL5 |
| 350 | 700 | 4.7             | 32.0       | 38.0    | 24.0    | 27.5    | 940               | 2820               | 200           | 0.8             | FXT35K335G682GL5 |
| 350 | 700 | 0.33            | 42.5       | 22.0    | 11.0    | 37.5    | 33                | 99                 | 100           | 1.0             | FXT35K334K102KL5 |
| 350 | 700 | 0.39            | 42.5       | 22.0    | 11.0    | 37.5    | 39                | 117                | 100           | 1.0             | FXT35K394K102KL5 |
| 350 | 700 | 0.47            | 42.5       | 22.0    | 11.0    | 37.5    | 47                | 141                | 100           | 1.0             | FXT35K474K102KL5 |
| 350 | 700 | 0.56            | 42.5       | 22.0    | 11.0    | 37.5    | 56                | 168                | 100           | 1.0             | FXT35K564K102KL5 |

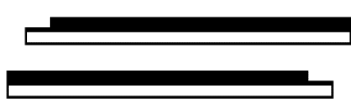
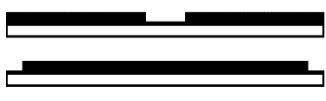
**Rating and Part Number**

| Vac | Vdc | Cap Value<br>μF | Dimensions |         |         |         | Peak Current<br>A | Surge Current<br>A | dv/dt<br>V/us | Lead Wire<br>mm | Part Number      |
|-----|-----|-----------------|------------|---------|---------|---------|-------------------|--------------------|---------------|-----------------|------------------|
|     |     |                 | W<br>mm    | H<br>mm | T<br>mm | P<br>mm |                   |                    |               |                 |                  |
| 350 | 700 | 0.68            | 42.5       | 22.0    | 11.0    | 37.5    | 68                | 204                | 100           | 1.0             | FXT35K684K102KL5 |
| 350 | 700 | 0.82            | 42.5       | 22.0    | 11.0    | 37.5    | 82                | 246                | 100           | 1.0             | FXT35K824K102KL5 |
| 350 | 700 | 1               | 42.5       | 22.0    | 11.0    | 37.5    | 100               | 300                | 100           | 1.0             | FXT35K105K102KL5 |
| 350 | 700 | 1.2             | 42.5       | 22.0    | 11.0    | 37.5    | 120               | 360                | 100           | 1.0             | FXT35K125K102KL5 |
| 350 | 700 | 1.5             | 42.5       | 24.0    | 13.0    | 37.5    | 150               | 450                | 100           | 1.0             | FXT35K155K112KL5 |
| 350 | 700 | 1.8             | 42.5       | 26.0    | 15.0    | 37.5    | 180               | 540                | 100           | 1.0             | FXT35K185K132KL5 |
| 350 | 700 | 2.2             | 42.5       | 26.0    | 15.0    | 37.5    | 220               | 660                | 100           | 1.0             | FXT35K225K132KL5 |
| 350 | 700 | 2.7             | 42.5       | 30.0    | 16.0    | 37.5    | 270               | 810                | 100           | 1.0             | FXT35K275K142KL5 |
| 350 | 700 | 3.3             | 42.5       | 30.0    | 16.0    | 37.5    | 330               | 990                | 100           | 1.0             | FXT35M335K142KL5 |
| 350 | 700 | 3.3             | 42.5       | 32.0    | 19.0    | 37.5    | 330               | 990                | 100           | 1.0             | FXT35K335K212KL5 |
| 350 | 700 | 4.7             | 42.5       | 37.0    | 22.0    | 37.5    | 470               | 1410               | 100           | 1.0             | FXT35K475K272KL5 |
| 350 | 700 | 5.6             | 42.5       | 37.0    | 22.0    | 37.5    | 560               | 1680               | 100           | 1.0             | FXT35K565K272KL5 |

**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<br>(85°C ~110°C, decreasing factor 1.35% per °C for Urms)   |
| Protection                  | Solvent resistant plastic case UL94 V-0<br>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<br>Average relative humidity per year ≤70%<br>RH≤85% for 30 days randomly distributed throughout the year<br>Dew is absent<br>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**

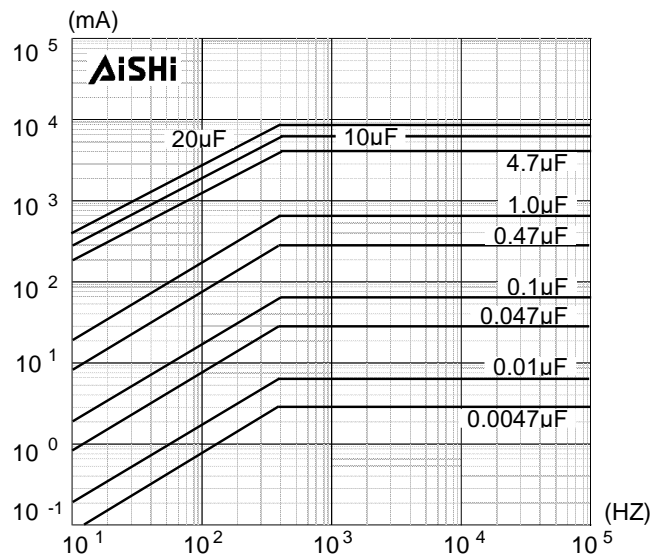
|                      |   |
|----------------------|---|
| Metallized Film      | OPP & Al/Zn   |
| Metal Sprayed        | Sn/Zn Alloy   |
| Connection Electrode | Copper clad steel wire or Tinned copper wires   |
| Case                 | Plastic Case (UL94V-0)  |
| Filling              | Epoxy Resin (UL94V-0)   |
| Film Construction    | <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p>Mono Structure</p>  </div> <div style="text-align: center;"> <p>Internal Series Connection</p>  </div> </div> |

**Electrical Characteristics**

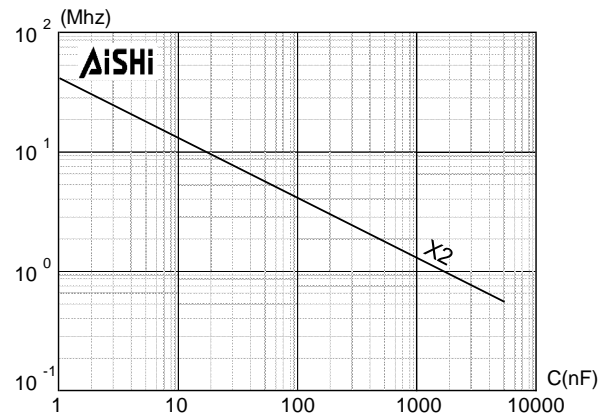
|   |  |
|---|--|
| Voltage Range                                   | 350Vac   |
| Capacitance Range                               | 0.1μF to 5.6μF   |
| Capacitance Tolerance                           | ±10% or ±20% at +25°C  |
| Capacitance                                     | Measuring Frequency at 1kHz<br>Measuring Voltage: 1±0.2V   |
| Standard Atmospheric Conditions for Static Test | <p><b>Ambient temperature</b><br/>15°C to 35°C<br/>(If there is any doubt on the results, the measurements shall be made at +20 +/- 5°C)</p> <p><b>Relative humidity</b><br/>45% to 75%<br/>(If there is any doubt on the results, the measurements shall be made at 60% to 70 %.)</p> <p><b>Air pressure</b><br/>86 kPa to 106 kPa.</p> |
| Voltage Between Terminals $U_{TT}$              | DC Voltage: 4.3xVR for 60 seconds or $\sqrt{2}(2U_R + 1000Vac)$ VDC for 2 seconds, charge current must be 1A max. Withstanding (DC) voltage (cut off current 10mA), rise time 100V/S.  |
| Voltage Between Terminals And Case $U_{TC}$     | $2U_R + 1500Vac$ , 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 MΩ<br>RC between leads, for $C > 0.33 \mu F$ at 100 V; 1 min > 5000 MΩ*μF  |
| 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

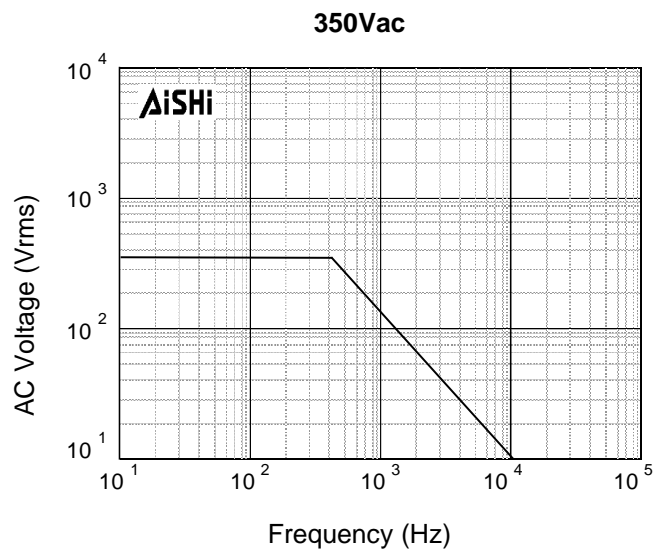
Maximum Current ( $I_{rms}$ ) Vs Frequency



Resonant VS Capacitance

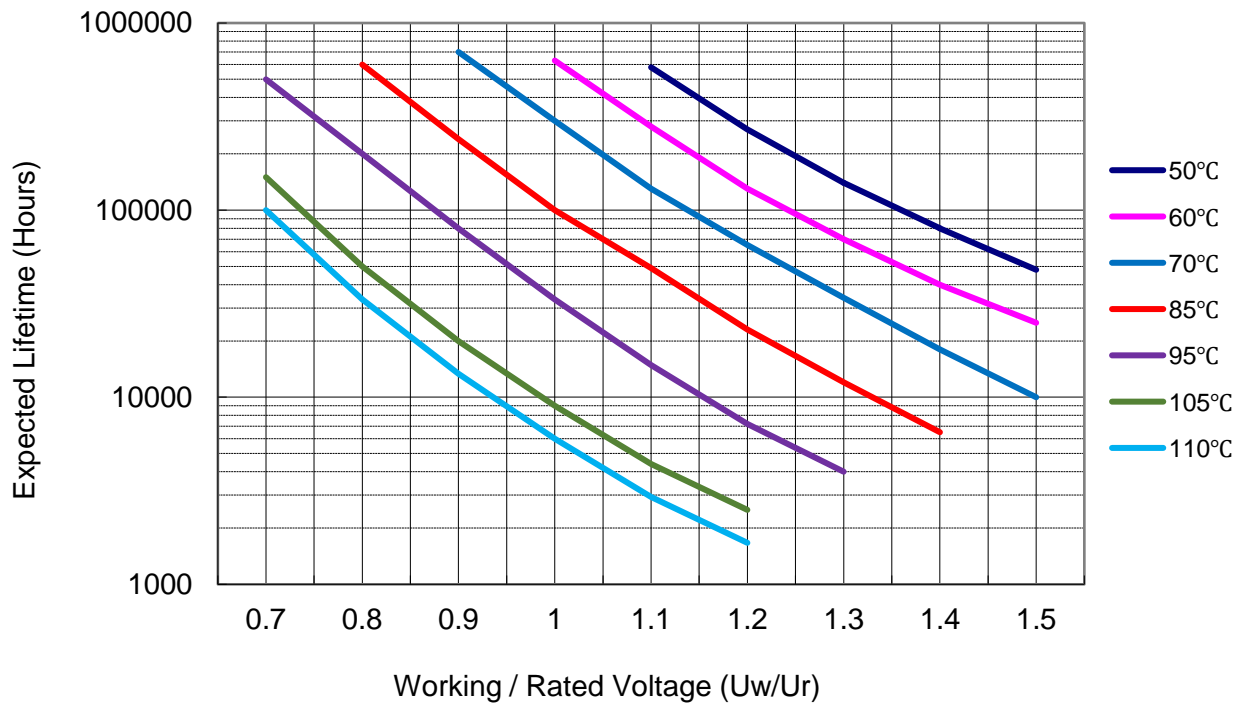


Maximum Voltage ( $V_{rms}$ ) Versus Frequency

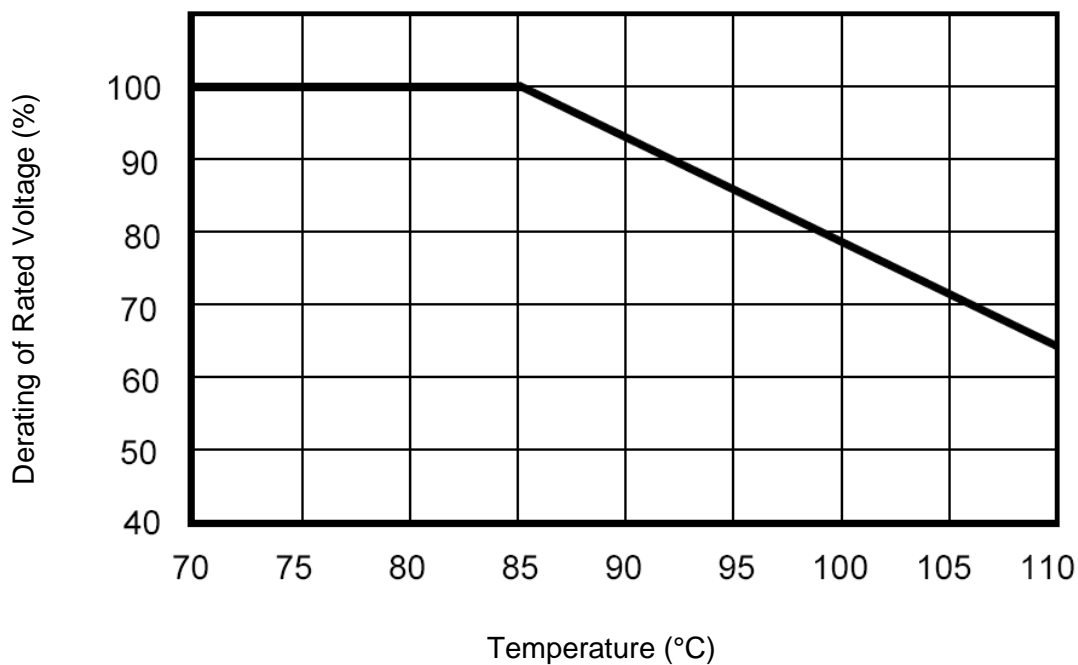




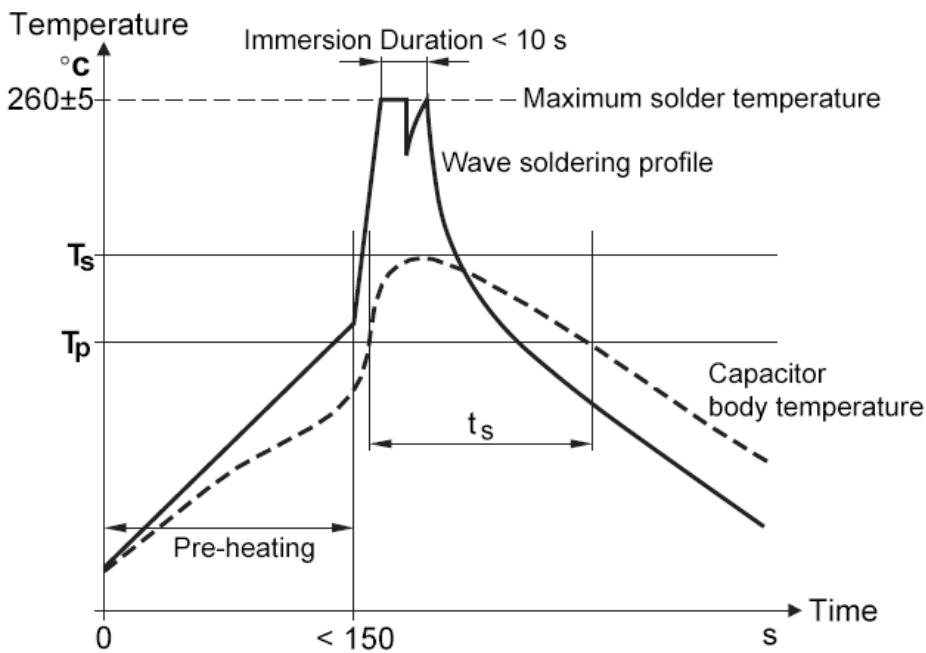
**Expected Life Curve**



**Derating of Rated Voltage Vs Temperature**



### Wave Soldering Recommendations

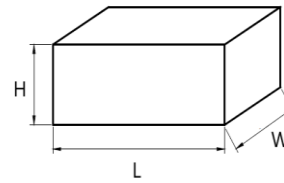


Ts: Capacitor body maximum temperature at wave soldering  
 Tp: Capacitor body maximum temperature at pre-heating

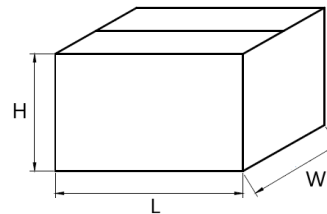
| Polypropylene Capacitors   | Polyester Capacitors   |
|--|--|
| During pre-heating: $T_p \leq 110^\circ\text{C}$<br>During soldering: $T_s \leq 120^\circ\text{C}$ , $t_s \leq 60$ | During pre-heating: $T_p \leq 130^\circ\text{C}$<br>During soldering: $T_s \leq 160^\circ\text{C}$ , $t_s \leq 60\text{s}$ |

### 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    |



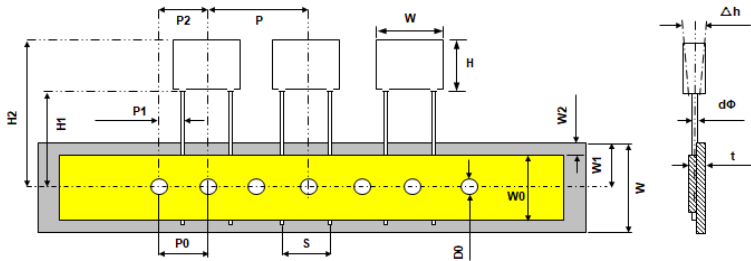
### Packaging Quantity

| 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

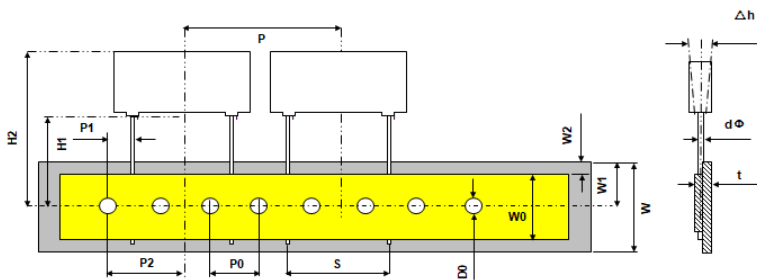
### Taping Style: Straight leads

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

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