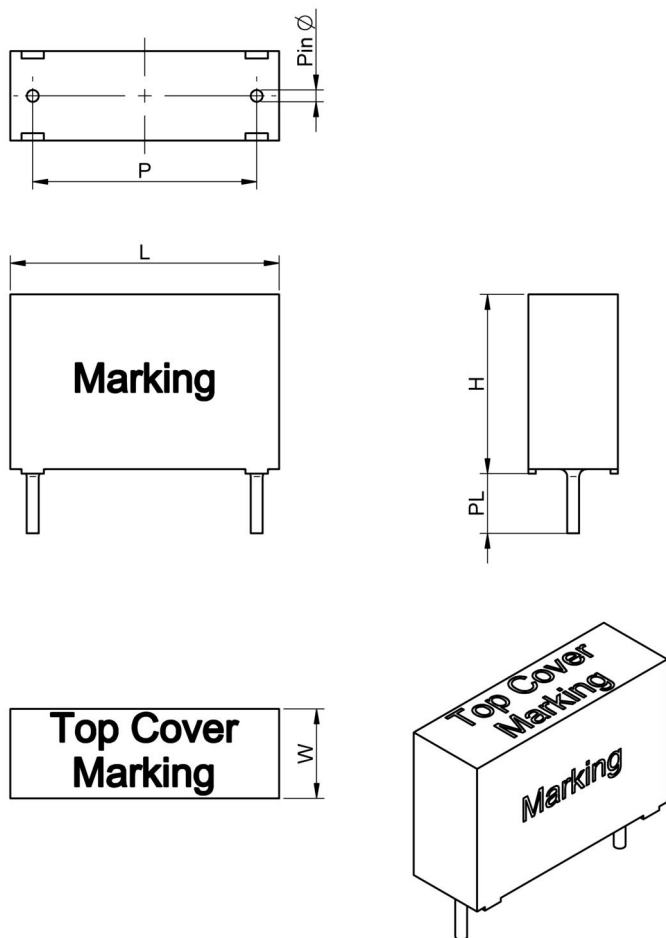
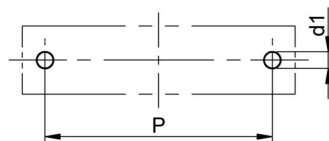
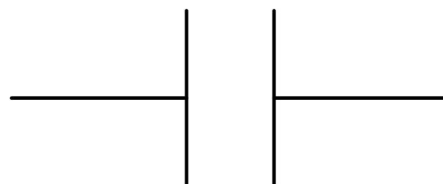


A Dimensions: [mm]

| | |
|--|-------------|
| P ± 0.5 | 27.5 |
| L ± 0.5 | 31.0 |
| H ± 0.5 | 22.0 |
| W ± 0.5 | 13.0 |
| PL min. | 4.0 |
| Pin $\varnothing \pm 0.05$ | 0.8 |
| d1 | 1.1 |

B Recommended hole pattern: [mm]**C Schematic:****D1 Electrical Properties:**

| Properties | Test conditions | | Value | Unit | Tol. |
|--|--------------------------|-----------|---------|------------------|------------|
| Capacitance | 1 V/ 1 kHz ± 0.2 kHz | C | 1.2000 | μF | $\pm 10\%$ |
| Rated voltage | | U_R | 275 | V (AC) | |
| Isolation Resistance | 1 min @ 100V (DC) | R_{ISO} | > 10000 | $M\Omega$ | min. |
| Dissipation factor | @ 1 kHz | DF | < 0.10 | % | max. |
| Dissipation factor | @ 10 kHz | DF | < 0.70 | % | max. |
| Dissipation factor | @ 100 kHz | DF | - | % | max. |
| Rate of Voltage Rise | | dV/dt | 130 | V/ μs | max. |
| Dielectric strength Pin to Pin | 1 minute | | 1333 | V (DC) | |
| Dielectric strength Pin to Case | 1 minute | | 2000 | V (AC) | |

E General information:

X2-Safety Class Capacitor
 Storage Conditions: 35°C, <45% RH
 Operating Temperature: -40°C to +105°C
 Climate category: 40/ 105/ 56/ B
 Maximum Selfheating (rated): 7°C
 Test conditions of Electrical Properties: 20°C, 33% RH
 if not specified differently
 FIT according to separate documentation

| | | | | | |
|-----|------------|-----|---------|---|----------------------------------|
| | | | | Projection | DESCRIPTION |
| | | | | | WCAP-FTX2 Foil Capacitors |
| | | | | Würth Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions Max-Eyth-Str. 1 74638 Waldenburg Germany Tel. +49 (0) 79 42 945 - 0 www.we-online.com eiSos@we-online.com | Order.- No. |
| 1.1 | 2014-08-14 | SSt | PSL | | 890324027012CS |
| 1.0 | 2014-05-14 | SSt | PSL | | |
| REV | DATE | BY | CHECKED | | Size: Pitch 27.5 mm - PL 4 |
| | | | | | SIZE |
| | | | | | A4 |



Component Marking:

| Print | Description |
|------------------------------------|---|
| 1st Line right | Matchcode: FTX2 |
| 2nd Line right | Rated Voltage: 275 V~ |
| 3rd Line right | Climate Category: 40/105/56/B |
| 1st Line left | Capacitance & Tolerance Code: 125K (Basis pF) |
| Bottom line | Certificates: ENEC, cULUS, CQC & Internal Marking |
| Top Cover Marking P < 15 | Date Code: YWW |
| Top Cover Marking P ≥ 15 | Date Code & Capacitance & Tolerance Code |

D2 Approvals:

| Properties | Standard | File |
|----------------------|---------------------------------------|-------------|
| ENEC10 by VDE | IEC 60384 - 14 | 40038405 |
| cULus | UL 60384 - 14 / CAN/CSA - E60384 - 14 | E345659 |
| CQC | IEC 60384 - 14 | 13001104051 |

D3 Mechanical Properties:

| Properties | Test Conditions | | Lead diameter [mm] | Force [N] | condition |
|-------------------------------|---------------------|-----------|--------------------|-----------|---------------|
| Termination Robustness | IEC 600668 - 2 - 21 | Pull Test | 0.5 to ≤ 0.8 | 10 | min. 10 sec. |
| | | | 0.9 to ≤ 1.25 | 20 | min. 10 sec. |
| | | Bend Test | 0.5 to ≤ 0.8 | 5 | min. 2 cycles |
| | | | 0.9 to ≤ 1.25 | 10 | min. 2 cycles |

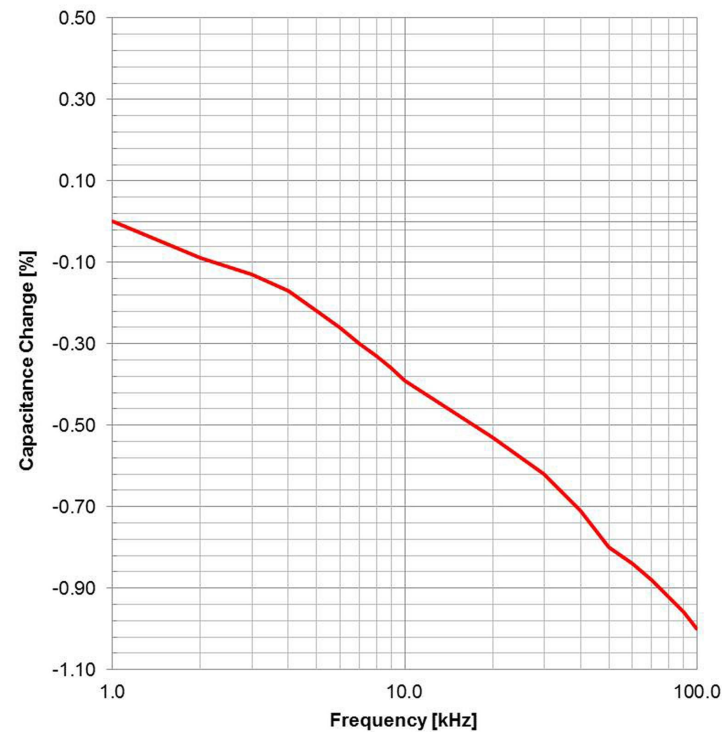
D4 Environmental Tests:

| Properties | Standard | |
|-------------------------------|--------------------|---|
| Active Flammability | IEC 60384-14 | max. 24 surge pulses @ 2.5 kV (one pulse every 5 seconds) |
| Passive Flammability | IEC 60384-14 | in combination with IEC 60381 - 1 & IEC 60695 - 11 - 5 |
| Vibration | IEC 60068 - 2 - 6 | all 3 directions, 2 hours each @ 10 - 55 - 10 Hz, amplitude 0.75 mm or 10 g |
| Damp Heat | IEC 60068 - 2 - 78 | 40°C, 95% RH, 56 days |
| Temperature Cycles | IEC 60068 - 2 - 14 | 5 cycles, upper and lower temperature 30 min. each, 30 sec. transfer time |
| Charge/ Discharge Test | IEC 60384 - 14 | √2 x U _R @ 100 V/μs |
| Surge Test | IEC 60384 - 14 | 2.5 kV Surge impulses |

| | | | | | | |
|--|--|--|--|----------------|--|----------------------------------|
| | | | | Projection | | DESCRIPTION |
| | | | | | | WCAP-FTX2 Foil Capacitors |
| | | | | | | Order.- No. |
| | | | | | | 890324027012CS |
| | | | | | | Size: Pitch 27.5 mm - PL 4 |
| | | | | | | SIZE |
| | | | | | | A4 |

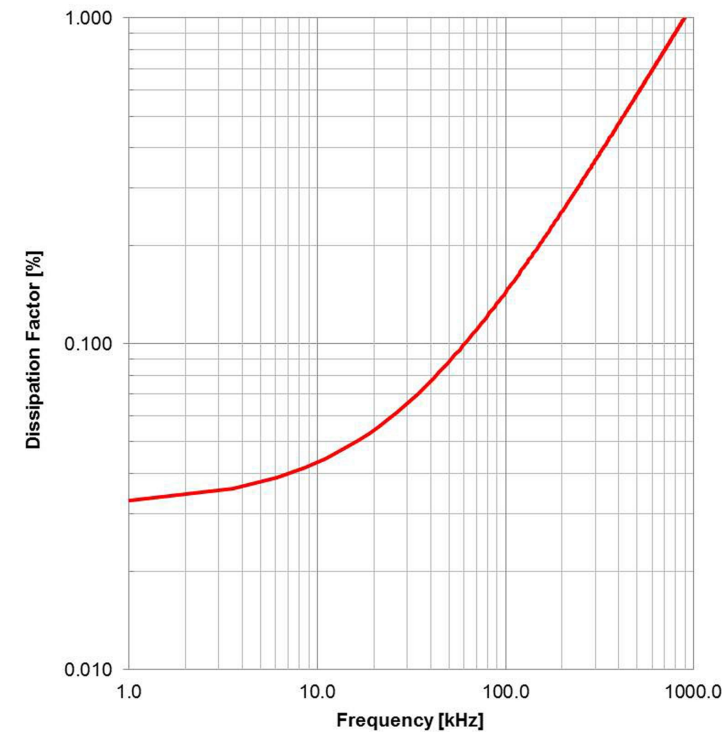


F1 Capacitance Change over Frequency:





Test Equipment: E4991A or equivalent

F2 Dissipation Factor over Frequency:



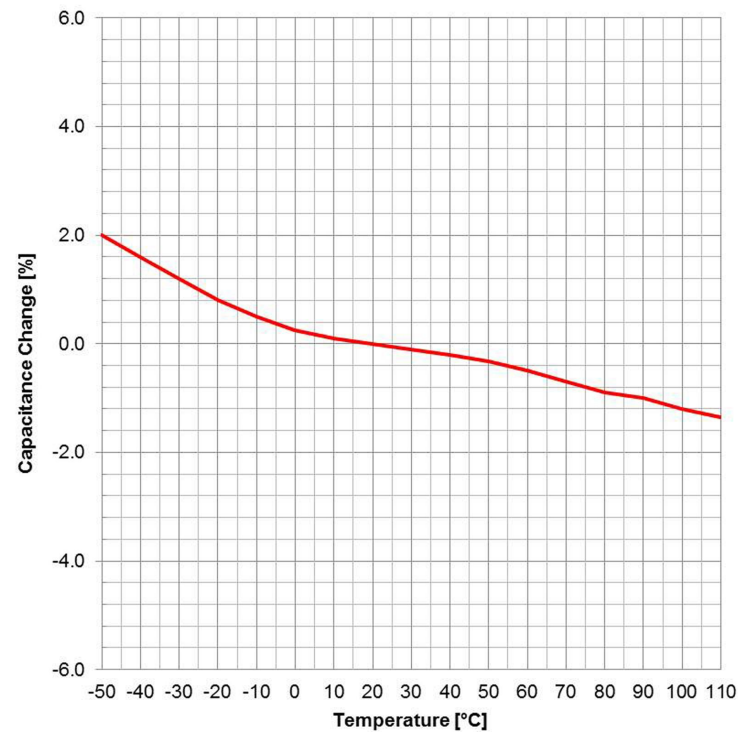
Test Equipment: E4991A or equivalent

| | | | | | | | | | |
|-----|------------|-----|---------|--|---|--|--|--|-------------------------------|
| | | | | | <div>Projection</div>  | | <div>DESCRIPTION</div> <div>WCAP-FTX2 Foil Capacitors</div> | | |
| | | | | | | | | | |
| | | | | | <div>Würth Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions Max-Eyth-Str. 1 74638 Waldenburg Germany Tel. +49 (0) 79 42 945 - 0 www.we-online.com eiSos@we-online.com</div> | | <div>Order.- No.</div> <div>890324027012CS</div> <div>Size: Pitch 27.5 mm - PL 4</div> | <div> COMPLIANT RoHS&REACH WÜRTH ELEKTRONIK</div> | <div>SIZE</div> <div>A4</div> |
| 1.1 | 2014-08-14 | SSt | PSL | | | | | | |
| 1.0 | 2014-05-14 | SSt | PSL | | | | | | |
| REV | DATE | BY | CHECKED | | | | | | |

This electronic component has been designed and developed for usage in general electronic equipment only. This product is not authorized for use in equipment where a higher safety standard and reliability standard is especially required or where a failure of the product is reasonably expected to cause severe personal injury or death, unless the parties have executed an agreement specifically governing such use. Moreover Würth Elektronik eiSos GmbH & Co KG products are neither designed nor intended for use in areas such as military, aerospace, aviation, nuclear control, submarine, transportation (automotive control, train control, ship control), transportation signal, disaster prevention, medical, public information network etc.. Würth Elektronik eiSos GmbH & Co KG must be informed about the intent of such usage before the design-in stage. In addition, sufficient reliability evaluation checks for safety must be performed on every electronic component which is used in electrical circuits that require high safety and reliability functions or performance.



F3 Capacitance Change vs. Temperature:





Test Equipment: E4991A or equivalent

F4 Dissipation Factor vs. Temperature:

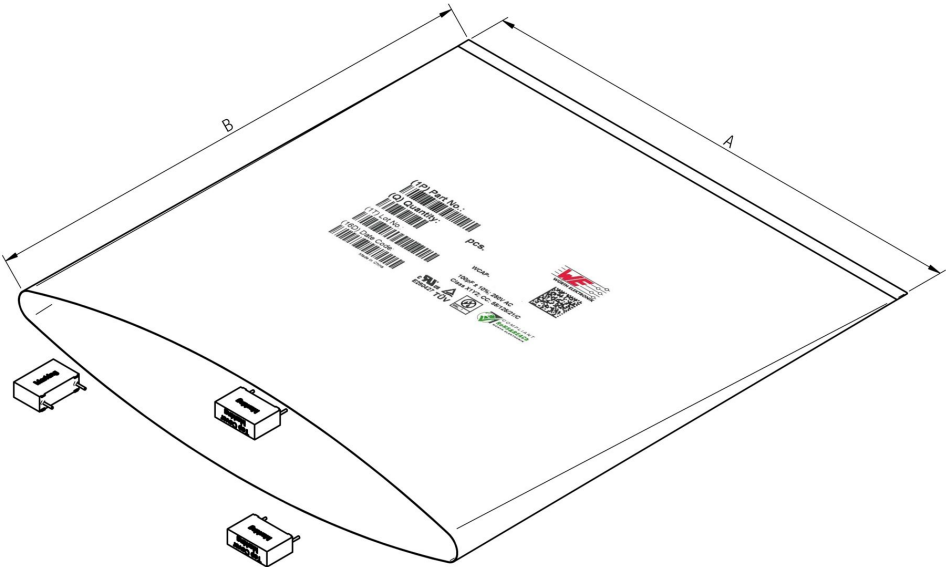
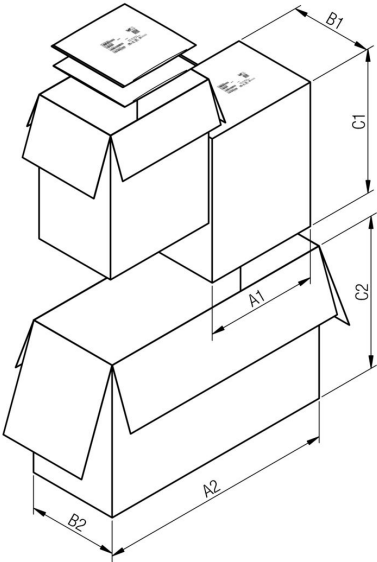


Test Equipment: E4991A or equivalent

| | | | | | | | | | |
|-----|------------|-----|---------|--|---|--|--|--|-------------------------------|
| | | | | | <div>Projection</div>  | | <div>DESCRIPTION</div> <div>WCAP-FTX2 Foil Capacitors</div> | | |
| | | | | | | | | | |
| | | | | | <div>Würth Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions Max-Eyth-Str. 1 74638 Waldenburg Germany Tel. +49 (0) 79 42 945 - 0 www.we-online.com eiSos@we-online.com</div> | | <div>Order.- No.</div> <div>890324027012CS</div> <div>Size: Pitch 27.5 mm - PL 4</div> | <div> COMPLIANT RoHS&REACH WÜRTH ELEKTRONIK</div> | <div>SIZE</div> <div>A4</div> |
| 1.1 | 2014-08-14 | SSt | PSL | | | | | | |
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G Packaging Specification - Bulk and Carton [mm]:



| Pitch (mm) | Packaging Type | Material of Bulk | Packaging Unit /Bulk | A | B |
|------------|----------------|------------------|----------------------|-----|-----|
| 7,5 | Bulk | PET | pcs. 500 | 200 | 200 |
| 10 | Bulk | PET | 500 | 200 | 200 |
| 12,5 | Bulk | PET | 500 | 200 | 200 |
| 15 | Bulk | PET | 500 | 250 | 300 |
| 22,5 | Bulk | PET | 200 | 250 | 300 |
| 27,5 | Bulk | PET | 100 | 300 | 300 |
| 37,5 | Bulk | PET | 50 | 300 | 300 |

| | Inner Carton | A1 | B1 | C1 | Master Carton | A2 | B2 | C2 |
|------|--------------|-------|-------|-------|---------------|-------|-------|-------|
| size | no. | mm | mm | mm | no. | mm | mm | mm |
| FTXX | 2 | 275,0 | 200,0 | 350,0 | 1 | 580,0 | 220,0 | 370,0 |
| FTX2 | 2 | 275,0 | 200,0 | 350,0 | 1 | 580,0 | 220,0 | 370,0 |

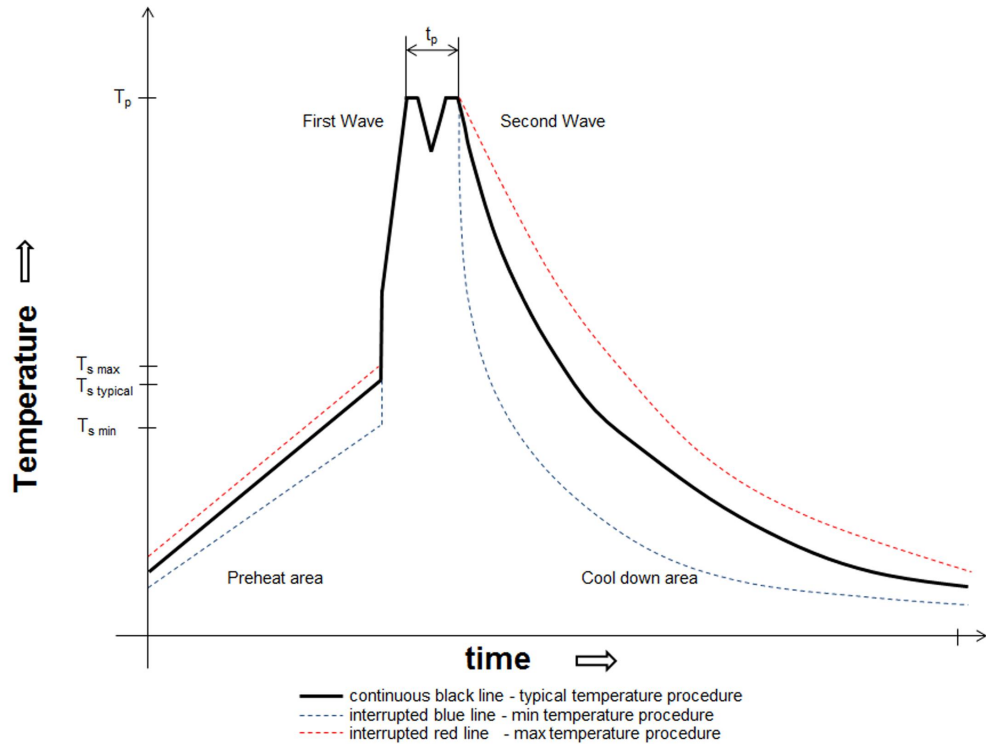
| | | | | | | | | |
|-----|------------|-----|---------|--|---|---|--|--|
| | | | | | Projection | DESCRIPTION | | |
| | | | | | | | | |
| | | | | | Würth Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions Max-Eyth-Str. 1 74638 Waldenburg Germany Tel. +49 (0) 79 42 945 - 0 www.we-online.com eiSos@we-online.com | WCAP-FTX2 Foil Capacitors | | |
| 1.1 | 2014-08-14 | SSt | PSL | | | | | |
| 1.0 | 2014-05-14 | SSt | PSL | | | Order.- No. 890324027012CS COMPLIANT SIZE A4 | | |
| REV | DATE | BY | CHECKED | | | | | |
| | | | | | | Size: Pitch 27.5 mm - PL 4 | | |

This electronic component has been designed and developed for usage in general electronic equipment only. This product is not authorized for use in equipment where a higher safety standard and reliability standard is especially required or where a failure of the product is reasonably expected to cause severe personal injury or death, unless the parties have executed an agreement specifically governing such use. Moreover Würth Elektronik eiSos GmbH & Co KG products are neither designed nor intended for use in areas such as military, aerospace, aviation, nuclear control, submarine, transportation (automotive control, train control, ship control), transportation signal, disaster prevention, medical, public information network etc.. Würth Elektronik eiSos GmbH & Co KG must be informed about the intent of such usage before the design-in stage. In addition, sufficient reliability evaluation checks for safety must be performed on every electronic component which is used in electrical circuits that require high safety and reliability functions or performance.

H Soldering Specifications:



H4: Classification Wave Soldering Profile:



H5: Classification Wave Profile

| Profile Feature | Pb-Free Assembly | Sn-Pb Assembly |
|---|--|--|
| Preheat <ul style="list-style-type: none">- Temperature Min (T_{smin})- Temperature Typical ($T_{stypical}$)- Temperature Max (T_{smax})- Time (t_s) from (T_{smin} to T_{smax}) | 100°C 120°C 130°C 70 seconds | 100°C 120°C 130°C 70 seconds |
| Δ preheat to max Temperature | 150°C max. | 150°C max. |
| Peak temperature (T_p) | 250°C - 260°C | 235°C - 260°C |
| Time of actual peak temperature (t_p) | max. 10 seconds max. 5 second each wave | max. 10 seconds max. 5 second each wave |
| Ramp-down rate <ul style="list-style-type: none">- Min- Typical- Max | ~ 2 K/s ~ 3.5 K/s ~ 5 K/s | ~ 2 K/s ~ 3.5 K/s ~ 5 K/s |
| Time 25°C to 25°C | 4 minutes | 4 minutes |

refer to EN 61760-1:2006

I Cautions and Warnings:

The following conditions apply to all goods within the product series of **WCAP-FTX2** of Würth Elektronik eiSos GmbH & Co. KG:

General:

The capacitor is engineered, designed and manufactured to be used within the datasheet specified values. Do not use the capacitor neither short term nor long term outside the specified values, which are given in the data sheet.

Product specific:

Follow all instructions mentioned in the data sheet, especially:

- The soldering profile has to be complied with according to the technical reflow soldering specification, otherwise this will void the warranty.
- Wave soldering is only allowed after evaluation and approval.
- Do not exceed the lower and/ or upper specified temperature!
- Do not use the capacitor with other than specified voltage!
- Prevent any kind of mechanical stress to the capacitor terminals!
- Do not use the soldered capacitor on a PCB for any movement or transportation to avoid any tensile force to the capacitor!
- Do not apply any kind of flexural or compressive force onto soldered or unsoldered component!
- Prevent the capacitor surface from any damage or scratches with sharp edges (e.g. chassis, screwdrivers, pincers)
- The capacitor must be placed on a PCB while using the recommended drill hole pattern without changing of the specific lead pitch!
- Avoid any other than specified temperature and / or time conditions during soldering!
- Avoid any overload or conditions that are not specified in the capacitors datasheet!
- Avoid any water or heavy dust on capacitors surface which may cause electrical leakage, damage, overheating or corrosion!

Storage conditions:

These film capacitors must be stored in stable climatic conditions, which are listed within the general information on front of data sheet.

Storage duration:

All products shall be used before the end of the period of 12 months based on the product date code, if not a 100% solderability can't be ensured.

Flammability:

Avoid any external energy or open fire (passive flammability).



Vibration resistance:

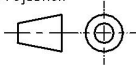

Do not exceed the vibration limits given by IEC60068-2-6.

Cleaning:

Do not use any other cleaning solvents for box-typed capacitors except: ethanol, isopropanol, n-propanol - water mixtures. After cleaning a drying process with temperatures not exceeding 65°C and not longer than 4 hours is mandatory to prevent any kind of electrical damage.

Full covered or embedded capacitors in final applications:

If final assemblies will be placed completely in any plastic resin, physical, chemical and thermal influences must be considered. If any specific evaluation or test is necessary please contact the related Würth Elektronik Capacitor Business Division.

| | | | | | | | | |
|-----|------------|-----|---------|---|---|----------------------------------|---|------|
| | | | | Projection |  | DESCRIPTION | | |
| | | | | | | WCAP-FTX2 Foil Capacitors | | |
| | | | | Würth Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions Max-Eyth-Str. 1 74638 Waldenburg Germany Tel. +49 (0) 79 42 945 - 0 www.we-online.com eiSos@we-online.com | | Order.- No. |  | SIZE |
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| 1.0 | 2014-05-14 | SSt | PSL | | | | | |
| REV | DATE | BY | CHECKED | | | Size: Pitch 27.5 mm - PL 4 | | |

Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели,
кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



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Электронная почта: ocean@oceanchips.ru

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