

Excellent Integrated System Limited

Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

Wurth Electronics Inc 890334023017

For any questions, you can email us directly: <u>sales@integrated-circuit.com</u>



more than you expect

| A Dimensions: [mm] | | B Rec | ommended | d hole | pattern: | [mm] | | | = | _// | | <u>~</u> | |
|-----------------------------------|-------|--------------|------------|--------|--|--|----------------|--------------------|----------------------|----------------|---------|----------|-------|
| | | | | | | 75 | D1 Electr | ical Properti | | ÜRTH I | ELEKTR | | |
| - P | | | ÷φ | | | ¥≓‡ | Pro | operties | Test conditions | | Value | Unit | Tol. |
| | | | L | | | T | | acitance | 1 V/ 1 kHz ± 0.2 kHz | С | 0.0560 | μF | ± 10% |
| - L | | | - | P | - | | - | d voltage | | U _R | 310 | V (AC) | |
| | ¥ [] | | | | | | Isolatio | n Resistance | 1 min @ 100V (DC) | RISO | > 30000 | MΩ | min. |
| | | | | | | | Dissip | ation factor | @ 1 kHz | DF | < 0.10 | % | max. |
| Marking | _ | | | | | | Dissip | ation factor | @ 10 kHz | DF | < 0.10 | % | max. |
| manning | | | | | | | Dissip | ation factor | @ 100 kHz | DF | < 0.50 | % | max. |
| | | C Schematic: | | | | Rate of | Voltage Rise | | dV/ dt | 300 | V/ µs | max. | |
| Ч л г | | c Schemauc: | | | Dielectric st | rength Pin to Pin | 1 minute | | 1333 | V (DC) | | | |
| | | | | | | | Dielectric str | ength Pin to Case | 1 minute | | 2000 | V (AC) | |
| Top Cover Marking [≥] | | | | | E General information: X2-Safety Class Capacitor; MKP - Metallized Polypropylene 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 | | | | | | | | |
| P ±0.5 | 10.0 | | | | | Projection | | DESCRIPTION | | | | | |
| L ±0.5 | 13.0 | | | | | | | WCAP-FT | XX Film Ca | pacito | ors | | |
| H ±0.5 | 10.0 | | | | | Würth Elektronik eiSos Gmb | H & Co. KG | | | | - | | |
| W ±0.5 | 5.0 | 1.3 | 2015-04-16 | SSt | PSL | EMC & Inductive Solutions Max-Eyth-Str. 1 | | | | | | | |
| PL min. | 20.0 | 1.2 | 2014-08-14 | SSt | PSL | 74638 Waldenburg Germany | | Order No. | 1 | | OMPL | | SIZE |
| Pin Ø ±0.05 | 0.6 | 1.1 | 2014-05-20 | SSt | PSL | Tel. +49 (0) 79 42 945 - 0 | | | | | | | |
| d1 | 0.9 | 1.0 | 2014-01-22 | SSt | PSL | www.we-online.com eiSos@we-online.com | | | | | | | A4 |
| , | | REV | DATE | BY | CHECKED | | | Size: Pitch 10.0 n | ım - PL 20 | | | | |

This electronic component has been designed and developed for usage in general electronic explorment very. 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 Will Teleformic eDis Grint A Ca KG products are notified and to reasonable expected control, standard and reliability standard and reliability standard is specifically 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 Will Teleformic eDis Grint A Ca KG products are notified executions are notified and the interfer of such usage before the design is again, in addition tability standard or severe personal injury or death. Will Teleformic edites are instanting and the interfer of such usage before the design is again, and the interfer of such usage in the edited is accuss and the reliability standard executed are instanting and the reliability standard or opportunities are instanting and the reliability standard executed are





Component Marking:

| Print | Description | | | |
|------------------------------|---|--|--|--|
| 1 st Line right | Matchcode: FTXX | | | |
| 2 nd Line right | Rated Voltage: 310 V~ | | | |
| 3™ Line right | Climate Category: 40/105/56/B | | | |
| 1st Line left | Capacitance & Tolerance Code: 563K (Basis pF) | | | |
| Bottom line | Certificates: ENEC, cULUS, CQC & Internal Marking | | | |
| Top Cover Marking P < 15 | Date Code: YWW | | | |
| Top Cover Marking $P \ge 15$ | 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 | 13001104050 | |

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 | | |

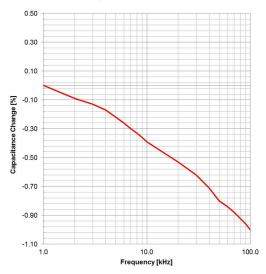
| | | | | Projection | | DESCRIPTION WCAP-FTXX Film | Capacitors | | | |
|-----|------------|-----|---------|--|----------|-------------------------------|------------|------|--|--|
| 1.3 | 2015-04-16 | SSt | PSL | Würth Elektronik eiSos GmbH EMC & Inductive Solutions | & Co. KG | | | | | |
| 1.2 | 2014-08-14 | SSt | PSL | Max-Eyth-Str. 1 74638 Waldenburg | | Order No. | COMPLIANT | | | |
| 1.1 | 2014-05-20 | SSt | PSL | Germany Tel. +49 (0) 79 42 945 - 0 | | | | SIZE | | |
| 1.0 | 2014-01-22 | SSt | PSL | www.we-online.com eiSos@we-online.com | | 890334023017 | | | | |
| REV | DATE | BY | CHECKED | elsos@we-online.com | | Size: Pitch 10.0 mm - PL 20 | | | | |

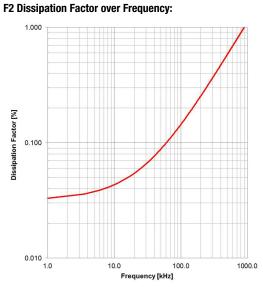
This electronic component has been designed and developed for usage in general electronic equipment only. This product is not authorized for use in equipment where a higher safety standard and reliability standard is especially required or where a lailure of the product is reasonably expected to cause severe personal injury or death, unless the parties have executed an agreement specifically governing such use. Moreover Willin Exectorial editors, efficient editors, format AC X6 products are not intended for use in equipment where a higher safety standard and reliability standard is specifically required or where a lailure of the product is reasonably expected to cause severe personal injury or death, unless the parties have executed an agreement specifically governing such use. Inte design is space, addition, splicient edition is stand in electrical circuits and reliability standard is specifically equation to expect the specifical personal injury or death. Inte design is space, addition, splicient entibility estandard is specifically equation to expect the specifical personal injury or death & Cox Stimute being entities and in electrical circuits and reliability standard is expecified and personal injury or death agreement specifically governing such disease prevention, medical, public information network etc. Will be despin is space, and addition, splicient reliability standard is expecified and agreement specifically equivalent and advective or performance.





F1 Capacitance Change over Frequency:





Test Equipment: E4991A or equivalent

Test Equipment: E4991A or equivalent

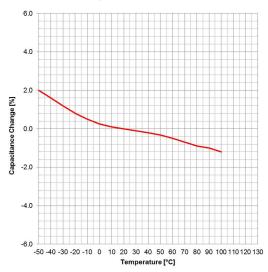
| | | | | Projection | | DESCRIPTION | | | | |
|-----|------------|-----|---------|--|----------|-----------------------------|-----------|----|--|--|
| | | | | | | | | | | |
| | | | | | | WCAP-FTXX Film Capacitors | | | | |
| | | | | Würth Elektronik eiSos GmbH | & Co. KG | | | | | |
| 1.3 | 2015-04-16 | SSt | PSL | EMC & Inductive Solutions Max-Evth-Str. 1 | | | | | | |
| 1.2 | 2014-08-14 | SSt | PSL | 74638 Waldenburg | | Order No. | COMPLIANT | | | |
| 1.1 | 2014-05-20 | SSt | PSL | Germany Tel. +49 (0) 79 42 945 - 0 | | 890334023017 | | | | |
| 1.0 | 2014-01-22 | SSt | PSL | www.we-online.com eiSos@we-online.com | | | | A4 | | |
| REV | DATE | BY | CHECKED | Clobsent uninc.com | | Size: Pitch 10.0 mm - PL 20 | | | | |

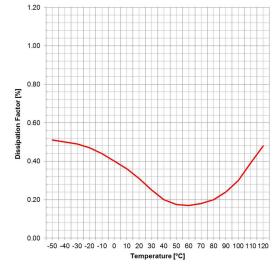
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F3 Capacitance Change vs. Temperature:





F4 Dissipation Factor vs. Temperature:

Test Equipment: E4991A or equivalent

Test Equipment: E4991A or equivalent

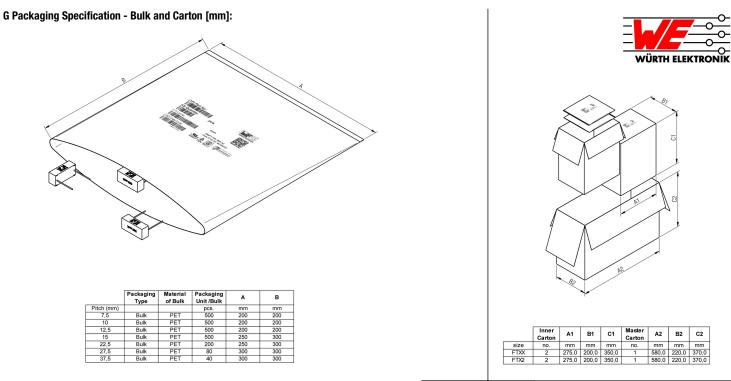
| | | | | Projection | | DESCRIPTION | | | |
|-----|------------|-----|---------|--|----------|-----------------------------|-----------|------|--|
| | | | | | | WCAP-FTXX Film Capacitors | | | |
| 1.3 | 2015-04-16 | SSt | PSL | Würth Elektronik eiSos GmbH EMC & Inductive Solutions | & Co. KG | | | | |
| 1.2 | 2014-08-14 | SSt | PSL | Max-Eyth-Str. 1 74638 Waldenburg | | Order No. | COMPLIANT | | |
| 1.1 | 2014-05-20 | SSt | PSL | Germany Tel. +49 (0) 79 42 945 - 0 | | 890334023017 | | JULE | |
| 1.0 | 2014-01-22 | SSt | PSL | www.we-online.com eiSos@we-online.com | | | | A4 | |
| REV | DATE | BY | CHECKED | | | Size: Pitch 10.0 mm - PL 20 | | | |

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Distributor of Wurth Electronics Inc: Excellent Integrated System Limited Datasheet of 890334023017 - CAP FILM 0.056UF 10% 310VAC RAD

more than you expect



| | | | | | WCAP-FTXX Film Capacitors |
|-----|------------|-----|---------|--|-----------------------------|
| | | | | Würth Elektronik eiSos GmbH & | · · |
| 1.3 | 2015-04-16 | SSt | PSL | EMC & Inductive Solutions Max-Evth-Str. 1 | |
| 1.2 | 2014-08-14 | SSt | PSL | 74638 Waldenburg | Order No. |
| 1.1 | 2014-05-20 | SSt | PSL | Germany Tel. +49 (0) 79 42 945 - 0 | Rohs&Reach |
| 1.0 | 2014-01-22 | SSt | PSL | www.we-online.com eiSos@we-online.com | 890334023017 |
| REV | DATE | BY | CHECKED | CIGUS/SWC-UNITIE.CUTT | Size: Pitch 10.0 mm - PL 20 |

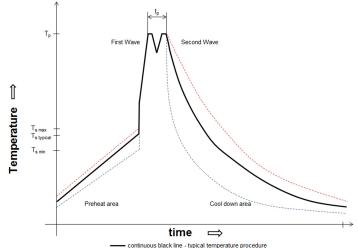
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H Soldering Specifications:



H4: Classification Wave Soldering Profile:



continuous black line - typical temperature procedure ----- interrupted blue line - min temperature procedure ----- interrupted red line - max temperature procedure

H5: Classification Wave Profile

| Profile Feature | Pb-Free Assembly | Sn-Pb Assembly |
|---|-------------------------|-------------------------|
| Preheat | | |
| - Temperature Min (T _{smin}) | 100°C | 100°C |
| - Temperature Typical (T _{stypical}) | 120°C | 120°C |
| - Temperature Max (T _{smax}) | 130°C | 130°C |
| - Time (t _s) from (T _{smin} to T _{smax}) | 70 seconds | 70 seconds |
| Δ preheat to max Temperature | 150°C max. | 150°C max. |
| Peak temperature (Tp) | 250°C - 260°C | 235°C - 260°C |
| Time of actual peak temperature (tp) | max. 10 seconds | max. 10 seconds |
| | max. 5 second each wave | max. 5 second each wave |
| Ramp-down rate | | |
| - Min | ~ 2 K/s | ~ 2 K/s |
| - Typical | ~ 3.5 K/s | ~ 3.5 K/s |
| - Max | ~ 5 K/s | ~ 5 K/s |
| Time 25°C to 25°C | 4 minutes | 4 minutes |

refer to EN 61760-1:2006

| | | | | Projection | | WCAP-FTXX Film | Capacitors | | |
|-----|------------|-----|---------|---|--|-----------------------------|------------|------|--|
| 1.3 | 2015-04-16 | SSt | PSL | Würth Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions | | | | | |
| 1.2 | 2014-08-14 | SSt | PSL | Max-Eyth-Str. 1 74638 Waldenburg | | Order No. | COMPLIANT | SIZE | |
| 1.1 | 2014-05-20 | SSt | PSL | Germany Tel. +49 (0) 79 42 945 - 0 | | | ROHS&REACH | JILL | |
| 1.0 | 2014-01-22 | SSt | PSL | www.we-online.com eiSos@we-online.com | | 890334023017 | | | |
| REV | DATE | BY | CHECKED | CIGUS/GIVE-UNINE.CUIT | | Size: Pitch 10.0 mm - PL 20 | | | |

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I Cautions and Warnings:

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

General

The capacitor is engineered, designed and manufactured to be used within the data sheet 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!
- Oo not use the soldered capacitor on a PCB for any movement or transportation to avoid any tensile force to the capacitor!
 Oo 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 en-sured.

nability: Fla

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-FTXX Film | Capacitors | | | |
|-----|------------|-----|---------|--|------------|---------------------------------|------------|------|--|--|
| 1.3 | 2015-04-16 | SSt | PSL | Würth Elektronik eiSos GmbH EMC & Inductive Solutions | H & Co. KG | | | | | |
| 1.2 | 2014-08-14 | SSt | PSL | Max-Eyth-Str. 1 74638 Waldenburg | | Order No. | COMPLIANT | | | |
| 1.1 | 2014-05-20 | SSt | PSL | Germany Tel. +49 (0) 79 42 945 - 0 | | | | UIZE | | |
| 1.0 | 2014-01-22 | SSt | PSL | www.we-online.com eiSos@we-online.com | | 890334023017 V WORTH ELEKTRONIK | | | | |
| REV | DATE | BY | CHECKED | ei5os@we-online.com | | Size: Pitch 10.0 mm - PL 20 | | | | |

er 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, transportation (automotive control, train control, transportation signal, disaster prevention, medical, public information network etc... Wurth Elektronik elSos GmbH & Co KG must be informed about the intent of such usage before wire high safety and reliability functions or performance. lectronic component has been designed and developed for usage in general electronic equipment only. This product is not authorized for usal in equipment where a higher or wer Winth Elektronic elSce GmbH & Co KG products are neither designed nor intended for use in areas such as military, aerospace, aviation, nuclear control, submarine, tra-sisign in stage. In addition, sufficient reliability evaluation must be added to use in areas such as military aerospace, aviation, nuclear control, submarine, tra-sisign in stage. In addition, sufficient reliability evaluation of use in decortic component which is used in electrical circuits that require



J Important Notes:

The following conditions apply to all goods within the product range of Würth Elektronik eiSos GmbH & Co. KG:

1. General Customer Responsibility

Some goods within the product range of Würth Elektronik eiSos GmbH & Co. KG contain statements regarding general suitability for certain application areas. These statements about suitability are based on our knowledge and experience of typical requirements concerning the areas, serve as general guidance and cannot be estimated as binding statements about the suitability for a customer application. The responsibi-lity for the applicability and use in a particular customer design is always solely within the authority of the customer. Due to this fact it is up to the customer to evaluate, where appropriate to investigate and decide whether the device with the specific product characteristics described in the product specification is valid and suitable for the respective customer application or not.

2. Customer Responsibility related to Specific, in particular Safety-Relevant Applications It has to be clearly pointed out that the possibility of a malfunction of electronic components or failure before the end of the usual lifetime cannot be completely eliminated in the current state of the art, even if the products are operated within the range of the specifications

In certain customer applications requiring a very high level of safety and especially in customer applications in which the malfunction or failure of an electronic component could endanger thrman life or health it must be ensured by most advanced technological aid of suitable design of the customer application that no injury or damage is caused to third parties in the event of malfunction or failure of an electronic component.

Therefore, customer is cautioned to verify that data sheets are current before placing orders. The current data sheets can be downloaded at www.we-online.com.

3. Best Care and Attention

Any product-specific notes, cautions and warnings must be strictly observed. Any disregard will result in the loss of warranty.

4. Customer Support for Product Specifications

Some products within the product range may contain substances which are subject to restrictions in certain jurisdictions in order to serve specific technical requirements. Necessary information is available on request. In this case the field sales engineer or the internal sales person in charge should be contacted who will be happy to support in this matter

5. Product R&D

Due to constant product improvement product specifications may change from time to time. As a standard reporting procedure of the Product Change Notification (PCN) according to the JEDEC-Standard inform about minor and major changes. In case of further queries regarding the PCN, the field sales engineer or the internal sales person in charge should be contacted. The basic responsibility of the customer as per Section 1 and 2 remains unaffected

6. Product Life Cycle

Due to technical progress and economical evaluation we also reserve the right to discontinue production and delivery of products. As a stan-dard reporting procedure of the Product Termination Notification (PTN) according to the JEDEC-Standard we will inform at an early stage about inevitable product discontinuance. According to this we cannot guarantee that all products within our product range will always be available. Therefore it needs to be verified with the field sales engineer or the internal sales person in charge about the current product availability expectancy before or when the product for application design-in disposal is considered.

The approach named above does not apply in the case of individual agreements deviating from the foregoing for customer-specific products.

7. Property Rights All the rights for contractual products produced by Würth Elektronik eiSos GmbH & Co. KG on the basis of ideas, development contracts as well as models or templates that are subject to copyright, patent or commercial protection supplied to the customer will remain with Würth Elektronik eiSos GmbH & Co. KG.

Würth Elektronik eiSos GmbH & Co. KG does not warrant or represent that any license, either expressed or implied, is granted under any patent right, copyright, mask work right, or other intellectual property right relating to any combination, application, or process in which Würth Elektronik eiSos GmbH & Co. KG components or services are used.

8. General Terms and Conditions

Unless otherwise agreed in individual contracts, all orders are subject to the current version of the "General Terms and Conditions of Würth Elektronik eiSos Group", last version available at www.we-online.com.

| | | | | Projection | 8 Co. KG | DESCRIPTION | Capacitors | |
|-----|------------|-----|---------|---|----------|-----------------------------|------------|------|
| 1.3 | 2015-04-16 | SSt | PSL | EMC & Inductive Solutions Max-Evth-Str. 1 | | | | |
| 1.2 | 2014-08-14 | SSt | PSL | 74638 Waldenburg Germany Tel. +49 (0) 79 42 945 - 0 | | Order No. | COMPLIANT | SIZE |
| 1.1 | 2014-05-20 | SSt | PSL | | | | OILL | |
| 1.0 | 2014-01-22 | SSt | PSL | www.we-online.com eiSos@we-online.com | | 890334023017 | | A4 |
| REV | DATE | BY | CHECKED | elouseme-onnine.com | | Size: Pitch 10.0 mm - PL 20 | | |

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