

# **Excellent Integrated System Limited**

Stocking Distributor

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

Wurth Electronics Inc 890334025015

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



more than you expect

	A Dimensions: [mm]		B Rec	ommende	d hole	pattern:	[mm]			=			<u>~</u>	
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C Schematic:       Delectric strength Pin to Pin       1 minute       1 333       V(DC)         Top Cover Marking       Iminute       1 minute       1 333       V(DC)         Marking       Iminute       2000       V(AC)         Iminute       Iminute       2000       V(AC)         Iminute       Iminute       2000       V(AC)         Iminute       Iminute       2000       V(AC)         Iminute       Iminute       1 minute       2000       V(AC)         Iminute       Iminute       1 minute       1 minute       2000       V(AC)         Iminute       Iminute       1 minute       1 minute       2000       V(AC)         Iminute       Iminute       Iminute       1 minute       2000       V(AC)         Iminute       Iminute       Iminute       2000       V(AC)       Iminute         Iminute       <										W TOU KHZ				
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Top Cover Marking         E General information: R2-Safety Class Capacitor; MKP - Metallized Polypropylene Storage Conditions: 35°C, -46% RH Operating Temperature: -40°C to +105°C C Climate category: 40' 105' 56' B Maximum Setheating (rated): 7°C Test conditions of Electrical Properties: 20°C, 33% RH if not specified differently FIT according to separate documentation           P ±0.5         15.0           L ±0.5         18.0           H ±0.5         12.0           W ±0.5         6.0           P1 min.         2010           Pin 0 ± 0.05         0.8           Min.         2014-05-28         SR PSL           Unin.         2014-05-28         SR PSL         Unint Status Solutions of Electrical Status Solutions of Electrical Status Solutions of Electrical Status Solutions		리							•					
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L±0.5         18.0           H±0.5         12.0           W±0.5         6.0           PL min.         20.0           1.1         2014-06         Sst         PSL           1.1         2014-06-20         Sst         PSL         WCAP-FTXX Film Capacitors           Order - No.         State S							Projection .		DESCRIPTION					
H±0.5         12.0         Virth Elektronik eSos GmbH & Co. KG           W±0.5         6.0         1.3         2015-04-16         Sst         PSL           Image: PL min.         20.0         1.2         2014-08-14         Sst         PSL         Virth Elektronik eSos GmbH & Co. KG         Order No.         State	P ±0.5	15.0					F-1							
H±0.5         12.0         Virth Elektronik eSos GmbH & Co. KG           W±0.5         6.0         1.3         2015-04-16         Sst         PSL           Image: PL min.         20.0         1.2         2014-08-14         Sst         PSL         Virth Elektronik eSos GmbH & Co. KG         Order No.         State	L ±0.5	18.0							WCAP-FT	XX Film Ca	pacito	ors		
W ±0.5         6.0         1.3         2019-04-16         Sst         PSL         MaxEgith-Str. 1         Order - No.         COMPLIANT         SIZE           PL min.         20.0         1.2         2014-06-14         Sst         PSL         74638 Valderburg         Order - No.         COMPLIANT         SIZE         SIZE         SIZE         MaxEgith-Str. 1         74638 Valderburg         Order - No.         SIZE         SIZ	H ±0.5	12.0						H & Co. KG		•				
PL min.         20.0           Pin 0 ±0.05         0.8           1.1         2014-05-20         SSt         PSL         74638 Waldeburg Germany         Order No.         SCE         SCE           1.0         2014-01-22         SSt         PSL         Tid. +44 (0) 79 42 945 - 0 www.we-online.com         Order No.         SCE         SCE         Additional         Additional         SCE         Additional         SCE	W ±0.5	6.0		2015-04-16										
Pin 0 ±0.05         0.8           d1         1.1         2014-05-20         SSt         PSL         Tel. +49 (0) 79 42 945 - 0 www.we-online.com         890334025015         WORTH ELEKTRONIK         A4	PL min.	20.0	1.2	2014-08-14		PSL	74638 Waldenburg		Order No.	1				SIZE
d1 1.1 i.o 2019 01 22 oot 102 eiSos@we-online.com	Pin Ø ±0.05	0.8					Tel. +49 (0) 79 42 945 - 0		80033/03	25015 🤇				
REV DATE BY CHECKED Size: Pitch 15.0 mm - PL 20	d1	1.1	_									A4		

onic 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. With Diedentic electronic electronic electronic component where a milester an environment of the product is reasonably expected to cause severe personal injury or death, unless the parties have executed an agreement specifically governing such use. This state, hadditor, station testing to execute an every electronic component which is used in electrical circuits that requires the internet of such usage before in-tasge. hadditor, additor reliability exactors or personal circuits that requires the internet of such usage before in-tasge. hadditor, additor reliability exactors or personal environment where a such electrical circuits that requires the internet of such usage before in-tasge. hadditor, additor reliability exactors or personal environment where a such electrical circuits that requires the internet of such usage before in-tasge. hadditor, additor reliability exactors or personal environment where a such as every electronic component which is used and reliability functions or personal environment.





# **Component Marking:**

Print	Description
1 <sup>st</sup> Line right	Matchcode: FTXX
2 <sup>nd</sup> Line right	Rated Voltage: 310 V~
3™ Line right	Climate Category: 40/105/56/B
1st Line left	Capacitance & Tolerance Code: 823K (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	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 <sub>R</sub> @ 100 V/μs
Surge Test	IEC 60384 - 14	2.5 kV Surge impulses

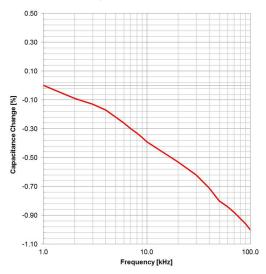
				Projection		DESCRIPTION WCAP-FTXX Film	Canacitors	
1.3	2015-04-16	SSt	PSL	Würth Elektronik eiSos GmbH EMC & Inductive Solutions	I & Co. KG		oupuonoro	
1.2	2013-04-10	SSt	PSL	Max-Eyth-Str. 1 74638 Waldenburg		Order No.	COMPLIANT	SIZE
1.1	2014-05-20	SSt	PSL	Germany Tel. +49 (0) 79 42 945 - 0		000004005045	ROHS&REACH	UILL
1.0	2014-01-22	SSt	PSL	www.we-online.com eiSos@we-online.com		890334025015		A4
REV	DATE	BY	CHECKED	elous@we-online.com		Size: Pitch 15.0 mm - PL 20		

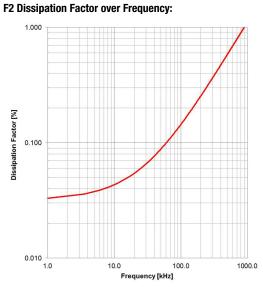
This electronic component has been designed and developed for usage in general electronic equipment only. This product is not authorized for use in equipment where a higher safety standard and reliability standard is especially required or where a lailure of the product is reasonably expected to cause severe personal injury or death, unless the parties have executed an agreement specifically governing such use. Mereover Winn Exectonic eSta for AE OX 56 products are not intended for use in access can as military, arrespace, addition, nucleicni especial signal, disaster prevention, medical, public information networks. Winn Electronic especial before the design effects or addition, stafficient tealing vestadard and reliability standard is or performance.





# F1 Capacitance Change over Frequency:





Test Equipment: E4991A or equivalent

Test Equipment: E4991A or equivalent

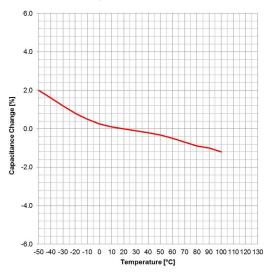
				Projection		DESCRIPTION		
				-E-1-@-				
						WCAP-FTXX Film	Capacitors	
				Würth Elektronik eiSos GmbH	& Co. KG			
1.3	2015-04-16	SSt	PSL	EMC & Inductive Solutions Max-Evth-Str. 1				
1.2	2014-08-14	SSt	PSL	74638 Waldenburg		Order No.	COMPLIANT	SIZE
1.1	2014-05-20	SSt	PSL	Germany Tel. +49 (0) 79 42 945 - 0		000004005045	ROHS&REACH	
1.0	2014-01-22	SSt	PSL	www.we-online.com eiSos@we-online.com		890334025015		A4
REV	DATE	BY	CHECKED	CIOUS SILC UNINC.COM		Size: Pitch 15.0 mm - PL 20		

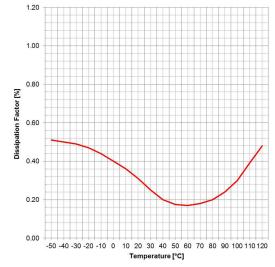
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# F3 Capacitance Change vs. Temperature:





F4 Dissipation Factor vs. Temperature:

Test Equipment: E4991A or equivalent

Test Equipment: E4991A or equivalent

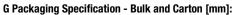
				Projection		DESCRIPTION			
				-E-1-@-					
						WCAP-FTXX Film	Im Capacitors		
				Würth Elektronik eiSos GmbH a	& Co. KG				
1.3	2015-04-16	SSt	PSL	EMC & Inductive Solutions Max-Evth-Str. 1					
1.2	2014-08-14	SSt	PSL	74638 Waldenburg		Order No.	COMPLIANT	SIZE	
1.1	2014-05-20	SSt	PSL	Germany Tel. +49 (0) 79 42 945 - 0		000004005045	ROHS&REACH		
1.0	2014-01-22	SSt	PSL	www.we-online.com eiSos@we-online.com		890334025015		A4	
REV	DATE	BY	CHECKED	Cloudence on Inc.com		Size: Pitch 15.0 mm - PL 20			

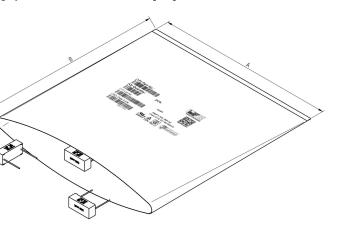
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# Distributor of Wurth Electronics Inc: Excellent Integrated System Limited Datasheet of 890334025015 - CAP FILM 0.082UF 10% 310VAC RAD

more than you expect





	Packaging Type	Material of Bulk	Packaging Unit /Bulk	A	в
Pitch (mm)			pcs.	mm	mm
7,5	Bulk	PET	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	80	300	300
37,5	Bulk	PET	40	300	300

					wi	ÜRTH	ELEI	KTRO
	Inner	A1	B1	C1	Master Carton	A2	B2	C2
	Carton							
size	no.	mm	mm	mm	no.	mm	mm	mm
size TXX		mm 275,0	mm 200,0	mm 350,0		mm 580,0	mm 220,0	mm 370,0

				Projection		DESCRIPTION				
				i Würth Elektronik eiSos GmbH & Co. KG FMC & Inductive Solutions		WCAP-FTXX Film Capacitors				
1.3	2015-04-16	SSt	PSL	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			ACh			
1.0	2014-01-22	SSt	PSL	www.we-online.com eiSos@we-online.com		890334025015 V WORTH ELEKTR	A4			
REV	DATE	BY	CHECKED	elous@we-unime.com		Size: Pitch 15.0 mm - PL 20				

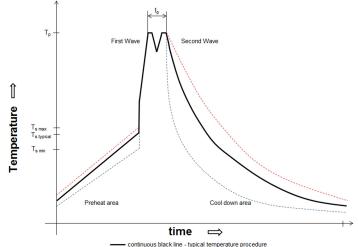
This electronic composent has been designed and developed for usage in general electronic expirant rowly. This product is no subjornent where a higher statistic and reliability datastard is especially required or where a failure of the product is reasonably expected to cause severe personal injury or death, unless the parties have executed an agreement specifically governing such use. Moreover With Evidencies (SSG GmbH & Ca KG products are relister designed nor intended for use in areas such as military, aerospace, existance, manageration (automotive control, sharing), tarasportation signal, disaster prevention, medical, public information network etc. With Evidencie (Castronic Composed that have existed and reliability datastard is expectation signal, disaster prevention, medical, public information network etc. With Evidencie (Castronic Composed that have existed and reliability datastard is expectation signal, disaster prevention, medical, public information network etc. With Evidencie (Castronic Composed that have existed and reliability datastard is optional signal, disaster prevention, medical, public information network etc. With Evidencie (Castronic Composed that have existed and reliability datastard is optional signal, disaster prevention, medical, public information network etc. With Evidencie (Castronic Composed that have existed and reliability datastard is optional signal, disaster prevention, medical, public information network etc. With Evidencie (Castronic Composed that have existed and reliability datastard is optional signal, disaster prevention, medical, public information network etc. With Evidencie (Castronic Composed that have existed and reliability datastard is optional signal, disaster prevention, medical, public information network etc. With Evidencie (Castronic Composed that have existed and reliability datastard or performance.



# **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 <sub>smin</sub> )	100°C	100°C
- Temperature Typical (Tstypical)	120°C	120°C
- Temperature Max (Tsmax)	130°C	130°C
- Time (t <sub>s</sub> ) from (T <sub>smin</sub> to T <sub>smax</sub> )	70 seconds	70 seconds
$\Delta$ 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 $(t_p)$	max. 10 seconds max. 5 second each wave	max. 10 seconds 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 & C EMC & Inductive Solutions	-
1.2	2014-08-14	SSt	PSL	Max-Eyth-Str. 1 74638 Waldenburg Germany Tel. +49 (0) 79 42 945 - 0	Order No.
1.1	2014-05-20	SSt	PSL		Rohs&REACh
1.0	2014-01-22	SSt	PSL	www.we-online.com eiSos@we-online.com	890334025015 <b>WORTH ELEKTRONIK</b> A4
REV	DATE	BY	CHECKED	CIOUS@WC-UNITE.CUTT	Size: Pitch 15.0 mm - PL 20

This electronic component has been deligioned and developed for usage in general electronic equipment only. This product is not authorized for usen 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 With Elektronic elsiss Gmith & Co. KG products are nether designed nor intended for usen a meas such as milliany, arrespace, aviation, managoration (automative control, tain co

# 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 & Co. KG EMC & Inductive Solutions				
1.2	2014-08-14	SSt	PSL	Max-Eyth-Str. 1 74638 Waldenburg Germany Tel. +49 (0) 79 42 945 - 0		Order No.	COMPLIANT RoHS&REACh	SIZE
1.1	2014-05-20	SSt	PSL			890334025015		
1.0	2014-01-22	SSt	PSL	www.we-online.com eiSos@we-online.com				A4
REV	DATE	BY	CHECKED	elousente-onnine.com		Size: Pitch 15.0 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		DESCRIPTION	Capacitors	
1.3	2015-04-16	SSt	PSL	Würth Elektronik elSos 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		890334025015 💞	ROHS&REACH	
1.0	2014-01-22	SSt	PSL	www.we-online.com elSos@we-online.com				A4
REV	DATE	BY	CHECKED	Clous www-unline.com		Size: Pitch 15.0 mm - PL 20		

Her 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, stan portation signal, disaster prevention, medical, public information network etc... Wurth Elektronik eSos GmbH & Co KG must be informed about the internit of such usage before in pills safety and reliability functions or performance. lectronic equipment only. This product is not authorized for use in equipment where a higher : intended for use in areas such as military, aerospace, aviation, nuclear control, submarine, tra st be performed on every electronic component which is used in electrical circuits that require ectronic component has been designed and developed for usage in general electronic e er Würth Elektronik elSos GmbH & Co KG products are neither designed nor intended f sign-in stage. In addition, sufficient reliability evaluation checks for safety must be perfo

