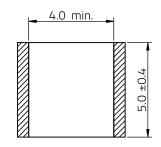
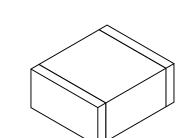
Dimensions: [mm]

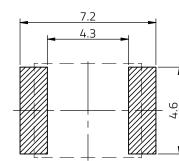
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±0.3 5.7 ±0.4 ഹ N.

0.6 ±0.3







Schematic:

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RoHS COMPLIANT

REACh COMPLIANT

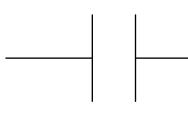
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HALOGEN

WURTH ELEKTRONIK

MORE THAN YOU EXPECT

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Electrical Properties

	Properties		Test c	onditions	Value	Unit	Tol.			
	Capacitance	e	C 1 ±0.2 25 °C	2 V _{RMS} , 1 kHz ±10 % @	4.7	nF	±10%			
	Rated Voltag	ge \	V _R		250	V (AC)	max.			
	Impulse Vol	tage V _I	IMP		5000	V (DC)	max.			
	Dissipation	Factor [DF 1 ±0.2 25 °C	2 V _{RMS} , 1 kHz ±10 % @	2.5	%	max.			
	Insulation Resistance	R	ISO Apply	500 V for 60 s max.	10	GΩ	min.			
	The measurem	harge Current or Class II MLC nent should be	< 50 mA C measuren applied afte	r.m.s)/ sec. nent: Apply a preheat tra r 24 ±2 hrs the part wa for Class I MLCC.						
Ī	General Information:									
			-	Safaty Cartified MICC						
	Ceramic Typ)e	-	Safety Certified MLCC	X7R Class II					
	Ceramic Typ Safety Class		-	Safety Certified MLCC	X7R Class II X1 / Y2					
	Safety Class			Safety Certified MLCC						
	Safety Class	s e Coefficient			X1 / Y2	C				
	Safety Class	s e Coefficient emperature nditions		-55	X1 / Y2 ± 15 % max.					
	Safety Class Temperature Operating Te Storage Cor (in original)	s e Coefficient emperature nditions		-55	X1 / Y2 ± 15 % max. °C up to +125 °					
	Safety Class Temperature Operating Te Storage Cor (in original Moisture Se	s e Coefficient emperature nditions packaging) ensitivity Leve	el (MSL)	-55	X1 / Y2 ± 15 % max. °C up to +125 ° 5 °C; 10 % rH up 1	o to 75 % rH				
	Safety Class Temperature Operating Te Storage Cor (in original Moisture Se	s e Coefficient emperature nditions packaging) ensitivity Leve	el (MSL) electrical pro	-55 5 °C up to + 3	X1 / Y2 ± 15 % max. °C up to +125 ° 5 °C; 10 % rH up 1 rH if not specifie	o to 75 % rH				
	Safety Class Temperature Operating Te Storage Cor (in original Moisture Se	s e Coefficient emperature nditions packaging) ensitivity Leve	el (MSL) electrical pro	-55 5 °C up to + 3 operties: +20 °C, 35 %	X1 / Y2 ± 15 % max. °C up to +125 ° 5 °C; 10 % rH up 1 rH if not specifie	o to 75 % rH				
	Safety Class Temperature Operating Te Storage Cor (in original Moisture Se	s e Coefficient emperature nditions packaging) ensitivity Leve	el (MSL) electrical pro	-55 5 °C up to + 3 operties: +20 °C, 35 % ting to separate docume	X1 / Y2 ± 15 % max. °C up to +125 ° 5 °C; 10 % rH up 1 rH if not specifie entation	o to 75 % rH				
	Safety Class Temperature Operating To Storage Cor (in original Moisture Se Test	s e Coefficient emperature nditions packaging) nsitivity Leve conditions of e	el (MSL) electrical pro	-55 5 °C up to + 3 operties: +20 °C, 35 % ting to separate docume	X1 / Y2 ± 15 % max. °C up to +125 ° 5 °C; 10 % rH up 1 rH if not specifie	o to 75 % rH				
	Safety Class Temperature Operating Te Storage Corr (in original p Moisture Se Test	e Coefficient emperature ditions packaging) ensitivity Leve conditions of e	el (MSL) electrical pro FIT accord 2025-02-07	-55 5 °C up to + 3 operties: +20 °C, 35 % ting to separate docume DIN ISO 2768-1m	X1 / Y2 ± 15 % max. °C up to +125 ° 5 °C; 10 % rH up 1 rH if not specifie entation PROJECTION METHOD METHOD	o to 75 % rH	_			
	Safety Class Temperature Operating Te Storage Corr (in original p Moisture Se Test	e Coefficient emperature ditions packaging) ensitivity Leve conditions of e	el (MSL) electrical pro FIT accord 2025-02-07	-55 5 °C up to + 3 operties: +20 °C, 35 % ting to separate docume	X1 / Y2 ± 15 % max. °C up to +125 ° 5 °C; 10 % rH up 1 rH if not specifier entation PROJECTION METHOD TEOHNICAL REFERENCE X7R2220472KH ORDER CODE	d differently				
	Safety Class Temperature Operating Te Storage Corr (in original p Moisture Se Test	e Coefficient emperature ditions packaging) ensitivity Leve conditions of e	el (MSL) electrical pro FIT accord 2025-02-07	-55 5 °C up to + 3 operties: +20 °C, 35 % ting to separate docume DIN ISO 2768-1m	X1 / Y2 ± 15 % max. °C up to +125 ° 5 °C; 10 % rH up 1 rH if not specifie entation PROJECTION METHOD TECHNICAL REFERENCE X7R2220472KI	d differently				

eiCap

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 and rel

eiSos@we-online.com

Mechanical Properties:

Properties	Definition	
Termination		Cu/ Ni/ Sn
Adhesive Strength of Termination	all sizes	10 ±1 sec; 5 N
Vibration Resistance		all 3 directions, 2 hours each @ 10 - 55 - 10 Hz, amplitude 0.75 mm or 10 g
Resistance to Solder Heat	Specific	Refer to Soldering Profile

Certification:

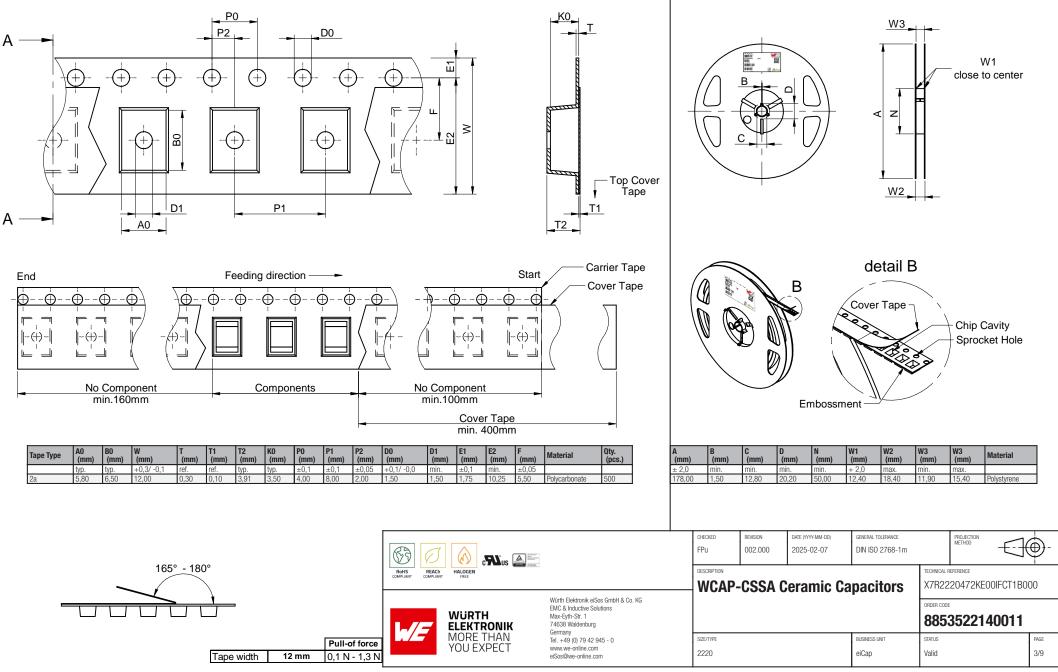
RoHS Approval	Compliant [2011/65/EU&2015/863]
REACh Approval	Conform or declared [(EC)1907/2006]
Halogen Free	Conform [JEDEC JS709B]
Halogen Free	Conform [IEC 61249-2-21]
TUEV Approval	R50268363
cULus Approval	E345659 [UL-60384-14]

			CHECKED REVISION DATE (MYM-MM-DD) GENERAL TOLEPANCE FPu 002.000 2025-02-07 DIN ISO 2768-1m DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION							
	COMPLIANT COMPLIANT	FREE			CSSA C	eramic Ca	pacitors		20472KE00IFCT1B0	00
	Würth Elektronik eisas GmbH & Co. KG EMC & Inductive Solutions MORE THAN YOU EXPECT WWW.we-online.com elSos@we-online.com		EMC & Inductive Solutions Max-Eyth-Str. 1 74638 Waldenburg					ORDER CODE	3522140011	
			Tel. +49 (0) 79 42 945 - 0 www.we-online.com	size/type 2220			BUSINESS UNIT eiCap	status Valid		PAGE 2/9

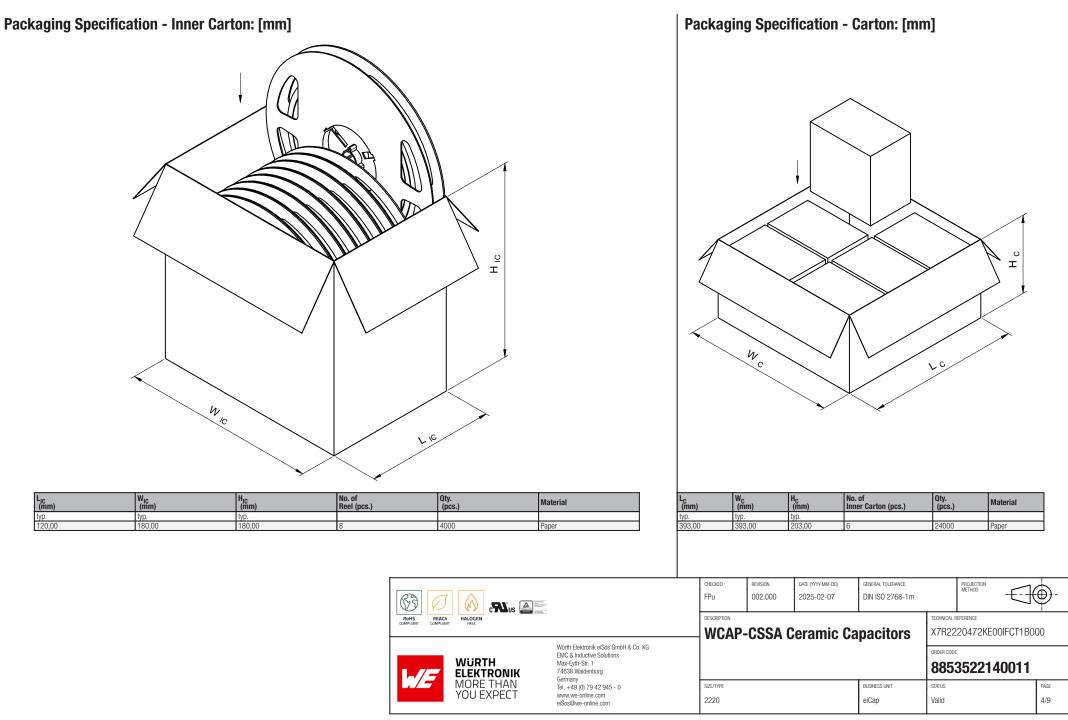
This electronic component has been designed and developed for usage in general electronic equipment only. This product is not authorized for use in equipment where a higher safety standard and reliability standard is especially required or where a failure of the product is not authorized for use in equipment 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 elSos GmbH & Co KG must be information unternoted for use in areas such as military, aerospace, availation, nuclear controls, submarine, transportation signal, disaster prevention, medical, public information network etc... Würth Elektronik elSos 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 electronic advicual transport. Wurth Elektronik elSos GmbH & Co KG must be information.

Packaging Specification - Tape: [mm]

Packaging Specification - Tape: [mm]



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 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 elSos 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 electricial circuits that reliability and reliability functions or performance.



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Classification Reflow Profile for SMT components:



Classification Reflow Soldering Profile:

Profile Feature		Value
Preheat Temperature Min	T _{s min}	150 °C
Preheat Temperature Max	T _{s max}	200 °C
Preheat Time t_s from $T_{s \min}$ to $T_{s \max}$	t _s	60 - 120 seconds
Ramp-up Rate (T _L to T _P)		3 °C/ second max.
Liquidous Temperature	TL	217 °C
Time \mathbf{t}_{L} maintained above \mathbf{T}_{L}	tL	60 - 150 seconds
Peak package body temperature	Т _р	$T_p \le T_c$, see Table below
Time within 5°C of actual peak temperature	t _p	20 - 30 seconds
Ramp-down Rate (T _P to T _L)		6 °C/ second max.
Time 25°C to peak temperature		8 minutes max.

refer to IPC/ JEDEC J-STD-020E

Package Classification Reflow Temperature (T_c):

Properties	Volume mm ³ <350	Volume mm ³ 350-2000	Volume mm ³ >2000
PB-Free Assembly I Package Thickness < 1.6 mm	260 °C	260 °C	260 °C
PB-Free Assembly Package Thickness 1.6 mm - 2.5 mm	260 °C	250 °C	245 °C
PB-Free Assembly I Package Thickness > 2.5 mm	250 °C	245 °C	245 °C

refer to IPC/ JEDEC J-STD-020E

ROHS COMPLINIT REACH REA		FPU DESCRIPTION WCAP	-CSSA C	eramic Ca	DIN ISO 2768-1m	TECHNICAL F X7R22	20472KE00)0
WURTH ELEKTRONIK MORE THAN YOU EXPECT	EMC & Inductive Solutions Max-Eyth-Str. 1 74638 Waldenburg Germany Tel. +49 (0) 79 42 945 - 0 www.we-online.com elSos@we-online.com	SIZE/TYPE 2220			BUSINESS UNIT eiCap		352214	PAGE 5/9

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Further information

Component Libraries:

Altium_WCAP-CSSA (24a)

Downloads_CADENCE_WCAP-CSSA (24a)

- Cadstar_WCAP-CSSA (20a)
- Eagle_WCAP-CSSA (24b)
- PSpice_WCAP-CSSA (24a)

Download_STP_885352214001x

Free Sample Order:

Order free samples of this article directly here!

Tutorials:

- Characteristics of Class 1 and Class 2 Ceramic Capacitors (PDF)
- Capacitors for Interference Suppression X1/Y2, X2 MLCCs and X2 Film Capacitors (PDF)
- MLCCs Soft Termination (PDF)

CHECKED REVISION DATE (YYYY-MM-DD) GENERAL TOLERANCE PROJECTION METHOD \oplus GÐ FPu 002.000 2025-02-07 DIN ISO 2768-1m \bigcirc DESCRIPTION TECHNICAL REFERENCE RoHS COMPLIANT REACh COMPLIANT HALOGEN **WCAP-CSSA Ceramic Capacitors** X7R2220472KE00IFCT1B000 Würth Elektronik eiSos GmbH & Co. KG ORDER CODE EMC & Inductive Solutions WÜRTH Max-Eyth-Str. 1 8853522140011 **ELEKTRONIK** 74638 Waldenburg Germany MORE THAN Tel. +49 (0) 79 42 945 - 0 SIZE/TYPE BUSINESS UNIT STATUS PAGE YOU EXPECT www.we-online.com 2220 eiCap Valid 6/9 eiSos@we-online.com

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REDEXPERT:

Calculate losses for 8853522140011 in REDEXPERT

Cautions and Warnings:

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

General

- This electronic component is designed and manufactured for use in general electronic equipment.
- Würth Elektronik must be asked for a written approval (following the certain PPAP level procedure) before incorporating the components into any equipment in the field such as military, aerospace, aviation, nuclear control, submarine, transportation (automotive control, train control, ship control), transportation signal, disaster prevention, medical, public information network etc. where higher safety and reliability are especially required and/or if there is the possibility of direct damage or human injury.
- · Electronic components that will be used in safety-critical or high-reliability applications, should be pre-evaluated by the customer.
- Direct mechanical impact to the product shall be prevented as material of the body, pins or termination could flake or in the worst case it could break.
- Avoid any water or heavy dust on capacitors surface, which may cause electrical leakage, damage, overheating or corrosion.
- Würth Elektronik products are qualified according to international standards, which are listed in each product reliability report. Würth
 Elektronik does not warrant any customer qualified product characteristic, beyond Würth Elektronik specifications, for its validity and
 sustainability over time.
- The responsibility for the applicability of the customer specific products and use in a particular customer design is always within the authority of the customer. All technical specifications for standard products also apply to customer specific products.
- The component is designed and manufactured to be used within the datasheet specified values. If the usage and operation conditions
 specified in the datasheet are not met, the body, pins or termination may be damaged or dissolved.
- · Do not apply any kind of flexural or compressive force onto soldered or unsoldered component.
- The capacitance tolerance as specified within the datasheet is only valid on the date of delivery and according specified measurement criteria.

Product specific:

Storage conditions:

- A storage of Würth Elektronik products for longer than 12 months is not recommended. Within other effects, the terminals may suffer degradation, resulting in bad solderability. Therefore, all products shall be used within the period of 12 months based on the day of shipment.
- Do not expose the components into direct sunlight.
- The storage condition in the original packaging is defined according to DIN EN 61760-2.
- The environment in which the capacitors are operated and stored has to have atmospheric characteristics and must be free of dew condensation and toxic gases (e.g. chlorine, ammonia, sulfur, hydrogen sulphide and hydrogen sulfate).

Operating climatic conditions:

- Do not exceed the lower nor the upper specified temperature under no circumstances.
- Be aware that the specified capacitance tolerance is only valid at the date of delivery.
- Do not use the capacitors under high humidity, high temperature nor under high or low atmospheric pressure which may affect capacitors reliability.
- Surface temperature including self-heating must be kept below the maximum operating temperature.
- The temperature rise of the capacitor's temperature compared to ambient temperature shall be below 20°C.

Operating load conditions:

- Operating voltage across the terminals including AC and DC peaks and AC or pulse overshooting, Vp-p, as well as irregular voltage because of resonance or switching must be below the rated voltage.
- Due to self-heating the reliability of the capacitor may be reduced, if high frequency AC or pulse is applied.
- Consider carefully possible specific changes of electrical characteristics like capacitance over temperature, voltage and time as well as the specific performance over frequency for the actual use conditions.

Design of the PCB:

- The chip capacitor shall be located to minimize any possible mechanical stress from deflection or board wrap.
- It is recommended to position the chip capacitor in parallel to slits and perforations and as far away from slits, perforations, separation
 points, screw holes, frames and edges of the PCB to avoid mechanical stress.
- The PCB design (e.g. land pattern design and grounding planes) must be evaluated for each individual circuit to achieve the optimal soldering results.

Mounting:

- Adjust the bottom dead center of the mounting head not to press on the PCB surface.
- Provide support from the bottom side of the PCB by a support pin for minimizing the impact energy from the mounting head.

Adhesive:

- · The adhesive should have sufficient coating and viscosity and should harden rapidly.
- The adhesive should be strong enough to hold parts on the board during the mounting and solder process and should have sufficient strength at high temperatures.
- The adhesive should have corrosion resistance, excellent insulation characteristics and no emission of toxic gasses nor any effect on the human body.
- Do not use too much adhesive to avoid pollution of the soldering pads.

Revis COMPUSANT REACH COMPUSANT REACH R		CHECKED FPu	REVISION 002.000	DATE (YYYY-MM-DD) 2025-02-07	general tolerance DIN ISO 2768-1m	_	PROJECTION METHOD	<u>}</u>
		DESCRIPTION	-CSSA (Ceramic Ca	pacitors	TECHNICAL F	EFERENCE 20472KE00IFCT1	B000
						ORDER CODE	352214001	1
MORE THAN YOU EXPECT	Germany Tel 49 (0) 79 42 945 - 0 www.we-online.com eiSos@we-online.com	size/type 2220			BUSINESS UNIT eiCap	status Valid		PAGE 7/9

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Soldering:

- The solder profile must comply with the Würth Elektronik technical soldering specification. All other profiles will void the warranty.
- All other soldering methods are at the customer's own risk.
- Strong forces which may affect the coplanarity of the component's electrical connection with the PCB (i.e. pins), can damage the part, resulting in avoid of the warranty.
- Customer needs to ensure that the applied solder paste, the paste thickness and solder conditions are applicable to guarantee a sufficient solder result according to the relevant criteria of IPC-A-610.
- Excessive amount of solder may lead to higher tensile force and chip cracking. Insufficient amount of solder may detach the capacitor due to defective contacts.
- Do not use excessive nor insufficient flux.
- Provide enough washing when water-soluble flux is used.
- For reflow soldering, two times limitation is recommended.
- Wave soldering is recommended only for the following case sizes: 0603 and 0805, thickness < 0.85 mm.

Cleaning and Washing:

- Washing agents used during the production to clean the customer's application, might damage or change the characteristics of the wire
 insulation body, the marking or the plating. Washing agent could have a negative effect on the long term functionality of the product.
- Avoid Halogen in the flux or any contaminated flux as well as excessively high ultrasonic cleaning.

Coating, molding and potting of the PCB:

- If the product is potted in the costumer's application, the potting material might shrink or expand during and after hardening. Shrinking
 could lead to an incomplete seal, allowing contaminants into the body and termination. Expansion could damage the body or
 termination. We recommend a manual inspection after potting to avoid these effects.
- When coating and molding the PCB, verify the quality influence on the capacitor.
- Verify the curing temperature and assure that there is no harmful decomposing or reaction gas emission during curing.
- Do not exceed the maximal temperature rise of 20°C.

Handling:

- After soldering, please pay attention not to bend, twist or distort the PCB in handling and storage.
- Avoid excessive pressure during the functional check of the PCB.
- Avoid bending stress while breaking the PCB.
- After mounting, avoid piling up PCBs to avoid hitting the chip capacitor of another board.

These cautions and warnings comply with the state of the scientific and technical knowledge and are believed to be accurate and reliable. However, no responsibility is assumed for inaccuracies or incompleteness.

		CHECKED REVISION DATE (YYYY-MM-00) GENERAL TOLERANCE FPu 002.000 2025-02-07 DIN ISO 2768-1m				PROJECTION METHOD) -	
ROHS REACH HALOGEN COMPLIANT COMPLIANT FREE		DESCRIPTION	CSSA C	eramic Ca	pacitors	technical r X7R22	EFERENCE 20472KE00IFCT1B0	00
	ELEKTRONIK 74638 Waldenburg					ORDER CODE	3522140011	
MORE THAN YOU EXPECT	Germany Tel. +49 (0) 79 42 945 - 0 www.we-online.com eiSos@we-online.com	size/type 2220			BUSINESS UNIT eiCap	status Valid		PAGE 8/9

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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 responsibility 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 human 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 standard 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.

Rots COMPLANT ROMERANT REACH COMPLANT REACH REAC		CHECKED FPu	REVISION 002.000	DATE (YYYY-MM-DD) 2025-02-07	general tolerance DIN ISO 2768-1m		PROJECTION METHOD	3@-
						TECHNICAL REFERENCE X7R2220472KE00IFCT1B000		
						ORDER CODE		
						8853	52214001	1

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