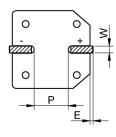
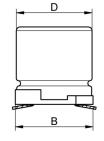
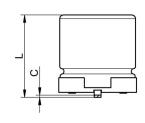
A Dimensions: [mm]





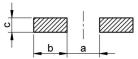




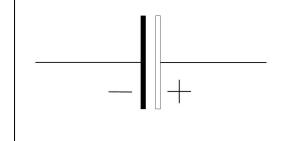


L max.	5.8		
D ±0.5	6.3		
A ±0.2	6.6		
B ±0.2	6.6		
C max.	0.15		
W ±0.1	0.65	a	2.1
E ±0.05	0.35	b	3.5
P ±0.2	2.1	С	1.6

B Recommended hole pattern: [mm]







				Projection ,
				9
				Würth Elektronik eiSos GmbH & Co. KG
				EMC & Inductive Solutions
				Max-Eyth-Str. 1 74638 Waldenburg
				Germany Tel. +49 (0) 79 42 945 - 0
1.0	2014-11-11	SSt	PSL	www.we-online.com eiSos@we-online.com
REV	DATE	BY	CHECKED	GOOSSWO OHIIIO.GOIII

WÜRTH ELEKTRONIK

D1 Electrical Properties:

Test conditions		Value	Unit	Tol.
0.25V; 120Hz	С	68	μF	± 20%
	U _R	16	V (DC)	max.
after 2 min.	I _{Leak}	400	μΑ	max.
120 Hz	DF	8	%	typ.
100 kHz	R _{ESR}	30	mΩ	max.
100kHz @105°C	l _{ripple}	2200	mA	max.
	0.25V; 120Hz after 2 min. 120 Hz 100 kHz	0.25V; 120Hz C U _R after 2 min. I _{Leak} 120 Hz DF 100 kHz RESR	0.25V; 120Hz	0.25V; 120Hz C 68 μF UR 16 V (DC) after 2 min. I _{Leak} 400 μA 120 Hz DF 8 % 100 kHz R _{ESR} 30 mΩ

E General information:

Aluminium Polymer Capacitors

Storage Conditions: 35° C, <45% RH Operating Temperature: -55° C up to $+105^{\circ}$ C

Load Life: 2000 h @ +105°C / 16 V (DC)

Test conditions of Electrical Proper- 20°C, 33% RH; if not specified differently

ties:

FIT according to separate documentation

DESCRIPTION

WCAP-PSLP Aluminum Polymer Capacitors

Order.- No.

Size: 6.3 x 5.8

875105344008



1000

SIZE

A4



Component Marking:

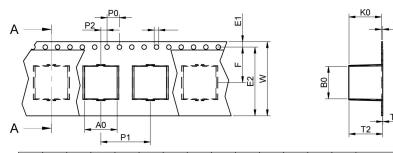
Print	Description				
1 st Line	Capacitance value: 68 μF				
2 nd Line	Rated Voltage: 16				
3 rd Line	WCAP-PSLP & datecode: YWW				

D2 Multiplier for Ripple Current vs. Frequency:

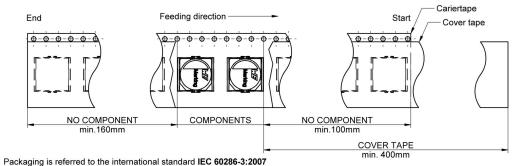
Frequency	120 Hz ≤ freq. < 1 kHz	1 kHz ≤ freq. < 10 kHz	10 kHz ≤ freq. < 100 kHz	100 kHz ≤ freq. < 300 kHz
Multiplier	0.05	0.3	0.7	1.0

				Projection		DESCRIPTION						
												
				7 +		WCAP-PSLP Alun	uminum Polymer Capacitors					
				Würth Elektronik eiSos Gmbl	H & Co. KG							
				EMC & Inductive Solutions Max-Evth-Str. 1								
				74638 Waldenburg		Order No.	COMPLIANT	SIZE				
				Germany Tel. +49 (0) 79 42 945 - 0		075405044000	ROHS&REACH	O.L.L				
1.0	2014-11-11	SSt	PSL	www.we-online.com eiSos@we-online.com		875105344008	TOTAL ELEKTRONIK	A4				
REV	DATE	BY	CHECKED	0.00000110		Size: 6.3 x 5.8						

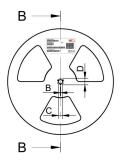
G1 Packaging Specification - Tape and Reel [mm]:

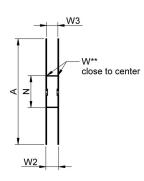


																	VPE /
		A0	B0	w	P1	T	T1	T2	K0	D1	E1	E2	F	P0	P2	Таре	packaging
																	unit
t	olerance	typ.	typ.	±0,3	±0,1	max.	min.	ref.	typ.	min.	±0,1	min.	±0,05	±0,1	±0,05		
	Ø 4 x 5,5	4,70	4,70	12,00	8,00	0,40	0,10	5,70	5,20	1,50	1,75	10,25	3,75	4,00	2,00	Polystyrene	2000
	Ø 5 x 5,5	5,70	5,70	12,00	12,00	0,40	0,10	5,70	5,20	1,50	1,75	10,25	3,75	4,00	2,00	Polystyrene	1000
	Ø 5 x 5,8	5,70	5,70	12,00	12,00	0,40	0,10	6,10	5,60	1,50	1,75	10,25	3,75	4,00	2,00	Polystyrene	1000
	Ø 6,3 x 5,5	7,00	7,00	16,00	12,00	0,40	0,10	5,70	5,20	1,50	1,75	14,25	5,75	4,00	2,00	Polystyrene	1000
	Ø 6,3 x 5,8	7,00	7,00	16,00	12,00	0,40	0,10	6,20	5,70	1,50	1,75	14,25	5,75	4,00	2,00	Polystyrene	1000
0	Ø 6,3 x 7,7	7,00	7,00	16,00	12,00	0,40	0,10	8,10	7,60	1,50	1,75	14,25	5,75	4,00	2,00	Polystyrene	900
size	Ø 8 x 6,5	8,70	8,70	16,00	12,00	0,40	0,10	7,00	6,50	1,50	1,75	14,25	5,75	4,00	2,00	Polystyrene	1000
0,	Ø 8 x 7,7	8,70	8,70	16,00	12,00	0,40	0,10	8,20	7,70	1,50	1,75	14,25	5,75	4,00	2,00	Polystyrene	700
	Ø 8 x 10,5	8,70	8,70	24,00	16,00	0,40	0,10	11,00	10,50	1,50	1,75	22,25	9,25	4,00	2,00	Polystyrene	500
	Ø 8 x 11,7	8,70	8,70	24,00	16,00	0,40	0,10	13,00	12,50	1,50	1,75	22,25	9,25	4,00	2,00	Polystyrene	400
	Ø 10 x 8,7	10,70	10,70	24,00	16,00	0,40	0,10	11,00	10,50	1,50	1,75	22,25	9,25	4,00	2,00	Polystyrene	500
	Ø 10 x 10,5	10,70	10,70	24,00	16,00	0,40	0,10	11,00	10,50	1,50	1,75	22,25	9,25	4,00	2,00	Polystyrene	500
	Ø 10 x 12,4	10,70	10,70	24,00	16,00	0,40	0,10	12,90	12,40	1,50	1,75	22,25	9,25	4,00	2,00	Polystyrene	400

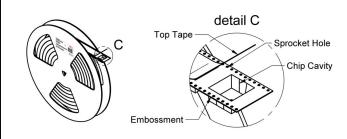


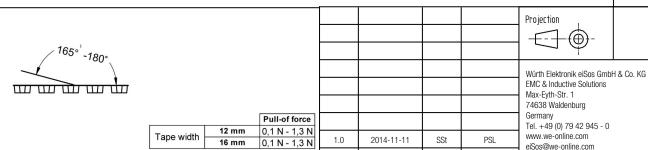






		Α	В	С	D	N	W1	W2	W3	W3
tolerar	nce	± 2,0	min.	± 0,8	min.	min.	+ 2	max.	min.	max.
Tape width	12 mm	330,00	1,50	13,00	20,20	60,00	12,40	18,40	11,90	15,40
	16 mm	330,00	1,50	13,00	20,20	60,00	16,40	22,40	15,90	19,40





WCAP-PSLP Aluminum Polymer Capacitors

Order.- No.

DESCRIPTION

875105344008

COMPLIANT ROHS&REACH WÜRTH ELEKTRONIK

SIZE

A4

Size: 6.3 x 5.8

CHECKED

BY

DATE

Cover tape

H Soldering Specifications:



H1: Classification Reflow Profile for SMT components:



H2: Classification Reflow Profiles

Profile Feature	Pb-Free Assembly	
Preheat - Temperature Min (T _{smin}) - Temperature Max (T _{smax}) - Time (t _s) from (T _{smin} to T _{smax})	150°C 200°C 60-120 seconds	
Ramp-up rate (T _L to T _P)	3°C/ second max.	
Liquidous temperature (T_L) Time (t_L) maintained above T_L	217°C 60-150 seconds	
Peak package body temperature (Tp)	See Table H3	
Time within 5°C of actual peak temperature (tp)	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-020D

H3: Package Classification Reflow Temperature

	Package Thickness	Volume mm³ <350	Volume mm³ 350 - 2000	Volume mm³ >2000
PB-Free Assembly	< 1.6 mm	260°C	260°C	260°C
PB-Free Assembly	1.6 - 2.5 mm	260°C	250°C	245°C
PB-Free Assembly	≥ 2.5 mm	250°C	245°C	245°C

refer to IPC/JEDEC J-STD-020D

				Projection -		WCAP-PSLP Alun	ninum Polymer Capa	citors			
				Würth Elektronik eiSos GmbH EMC & Inductive Solutions Max-Eyth-Str. 1	& Co. KG						
				74638 Waldenburg Germany		Order No.	COMPLIANT SI				
1.0	2014-11-11	SSt	PSL	Tel. +49 (0) 79 42 945 - 0 www.we-online.com eiSos@we-online.com		875105344008	WÜRTH ELEKTRONIK	A4			
REV	DATE	BY	CHECKED	GIOUS@WG-UHIHIE.CUITI		Size: 6.3 x 5.8					

I Cautions and Warnings:

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

1.1 Polarity

An Aluminum Polymer Capacitor has a polarity. In operation this polarity needs to be considered and adhered. Reverse voltage can damage or destroy an Aluminum Polymer Capacitor. This can finally lead to a malfunction. If the polarity in a circuit will be switched or possibly can be reversed, the usage of a non-polar capacitor shall be applied. The polarity of an Aluminum Polymer Capacitor is for SMT V-Chip types marked like following. On the top of the component the negative terminal is marked with a colored semicircle or bar.

1.2 Overvoltage

Avoid any overvoltage and do not apply a continuous overvoltage. If an overvoltage is applied to the capacitor, the leakage current can increase drastically. The applied working voltage is not allowed to exceed the rated working voltage of the specific capacitor.

1.3 Operating Temperature

The capacitor shall not be operated above the operating temperature, which is stated within this datasheet of the specific capacitor. The achievable lifetime of the capacitor is correlating to the applied temperature. In order to achieve the maximum lifetime, the capacitor should be operated by the lowest possible temperature conditions within the application.

1.4 Ripple Current

The applied ripple current shall not exceed the specified maximum ripple current of the capacitor.

If a higher ripple current is applied as permitted, it can cause excessive heat generation and higher temperature inside the capacitor. This happens due to pole change effects, if ripple current is applied to the capacitor. This can result in damage or lifetime shortage of the capacitor and may cause deterioration.

Electrolytic capacitors are regularly not designed for usage in AC applications and ripple current is applied / based due to parasitic effects on DC signal

Please see electrical specification within this datasheet for maximum allowed ripple current.

1.5 Charge and Discharge

Frequent and quick charge / discharge cycles may generate heat inside the capacitor. In worst case this can cause a decrease of capacitance, an increase of leakage current or breakdown.

Applications with rapid charge and discharge cycles should be avoided. For assistance with your application please consult our technical support.

1.6 Storage Conditions



The storage conditions for a capacitor are recommended to be 5 °C up to 35 °C and less than 75 % rel. humidity.

Do not expose the capacitor to environments with hazardous gas, ozone, ultraviolet rays or any kind of radiation. Avoid any contact of the capacitor with direct sunshine, saltwater, spray of water or types of oil during storage..

If a capacitor is stored for a long time without applying voltage or storage conditions of 35 °C or above and more than 75 % relative humidity, the leakage current may increase.

The leakage current will return to normal level when applying the rated voltage to the capacitor before use. If the capacitor was stored for more than 6 months, it is recommended to apply DC working voltage to the capacitor for 30 minutes through a $1 \text{ k}\Omega$ protective series resistor. 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 cannot be guaranteed. The capacitance tolerance as specified within the datasheet is only valid on the date of delivery.

1.7 Reflow Soldering

The detailed soldering instruction is given at H Soldering Specification in this datasheet.

1.8 Hand Soldering

Take care that the tip of solder iron will only contact pins or leadframe of the capacitor to avoid any possible damage of the capacitor.

				Projection !		DESCRIPTION					
						WCAP-PSLP Aluminum Polymer Capacitors					
				Würth Elektronik eiSos Gmbl EMC & Inductive Solutions	H & Co. KG						
				Max-Eyth-Str. 1 74638 Waldenburg Germany		Order No.	COMPLIANT ROHS&REACH	SIZE			
1.0	2014-11-11	SSt	PSL	Tel. +49 (0) 79 42 945 - 0 www.we-online.com eiSos@we-online.com		875105344008	WÜRTH ELEKTRONIK	A4			
REV	DATE	BY	CHECKED	elsos@we-online.com		Size: 6.3 x 5.8					

I Cautions and Warnings (2):

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

1.9 Cleaning

Do not wash the assembled capacitors with the following cleaning agents:

- •petroleum system solvents: may cause degeneration of the rubber seal material
- •alkali system solvents: may cause corrosion and dissolve of the aluminum case
- halogenated solvents: may cause corrosion and failure of the capacitor
- •acetone: component marking may be erased
- •xylene: may cause deterioration of the rubber seal material

Verify the following points when washing is are applied to capacitors:

- Please monitor conductivity, ph-value, specific gravity and the water content of cleaning agents. Contamination adversely affects these characteristics.
- •Be sure to not expose the capacitors under solvent rich conditions or keep capacitors inside a closed container. In addition, please dry the solvents on the PCB and the capacitor sufficiently with an air knife (temperature should be less than the maximum rated category temperature of the capacitor) for 10 minutes.
- Capacitors can be characteristically and catastrophically damaged by halogen ions, particularly by chlorine ions. The degree of the damage mainly depends upon the characteristics of the electrolyte and rubber seal material. When halogen ions come into contact with the inside of the capacitors, the foil may corrode, when a voltage is applied. This corrosion causes an extremely high leakage current, which results in venting and an open circuit defect.

All other cleaning processes and cleaning agents are not approved by Würth Elektronik eiSos. All cleaning methods need to be tested and validated by the customer.

1.10 Adhesives and Coating Materials

The usage of any adhesive or coating material, which is containing halogenated solvents, is not allowed.

Before applying adhesives or coating materials, make sure that the following points are fulfilled:

- Take care that the surface and capacitor is dry and clean before applying adhesive or coating, to avoid any contamination with flux residues or cleaning solvents.
- •Assure that no flux residue or spot is left between the rubber seal material of the capacitor and the PCB.
- •Do not fully cover the entire rubber seal surface with adhesive, coating or molding materials. Otherwise the covering of the full rubber seal surface may restrain the natural diffusion of hydrogen gas. Block maximum 80% of the sealed section of a capacitor.
- •If the used adhesive, coating or molding material is containing halogen ions in a large amount, the halogen ions can diffuse and creep into the capacitor and can damage the capacitor. Both above explained circumstances can result in serious failures.
- •Follow the specified heating and curing instructions given by supplier of the used adhesive or coating material. Avoid excessive pressure or heat on the capacitor by applying coating or adhesive.



- Take care that hardening of adhesive, coating material was correctly done, so that no solvents do remain.
- Be aware, that used solvents within adhesive and coating materials can damage the sleeve of the capacitor and can result in changes of the appearance of the sleeve (color, shine and marking).

1.11 Mechanical Stress on lead wire and terminal

Do not stress the capacitor with the following actions:

- Applying any excessive force to the lead wire or terminal.
- •Move or turn the capacitor after soldering to the PCB.
- Bending pins after soldering.
- Carrying the PCB by picking / holding the board via a capacitor.

1.12 Operation and Usage of the Capacitor

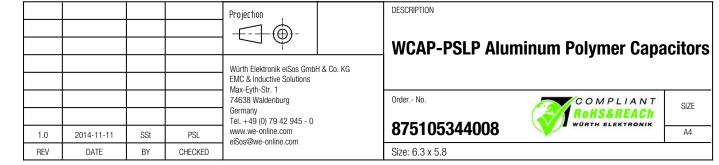
In operation and usage take care about the following points.

Do not use the capacitor within the following environmental conditions:

- Environment with high mechanical stress / shocks or vibration (please see this specific datasheet for permitted limits).
- Environment with high amount of damp condensation, water or types of oil.
- •Direct sunlight, ozone, any kind of radiation or ultraviolet rays.
- •Toxic gases (e.g. ammonium, chlorine and compounds, bromine and compounds, hydrogen sulfide, sulfuric acid).

User should never touch the terminals of the capacitor directly.

Avoid short circuit between terminals with any kind of conductive material (e.g. metal, fluid, acid, alkaline solution).



I Cautions and Warnings (3):

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

1.13 Maintenance

For industrial applications it is recommended to perform periodic inspections. Power supplies shall be turned off before inspection to discharge the capacitor. Check the following points in case of an inspection:

- Visual inspection of the capacitor to see, if the vent operated for pressure relief and if any leakage of electrolyte has taken place.
- Measurement of electrical characteristics of the capacitor (according to datasheet, especially leakage current, capacitance and dissipation factor).

In case of deviation or failure according to the specified characteristics, take care to start appropriate actions (e.g. replacement of capacitor).

1.14 Emergency Case

In case of excessive pressure within the capacitor the vent may operate and release this pressure. In case of vent operation gas becomes visible, when the component is in operation. If so, directly turn off the application and disconnect it from the power source. If the application will not be turned off, a possible short circuit of capacitor or a short circuit due to bridging of liquefied gas can possibly damage the circuit and in worst case the application may be dramatically damaged.

Do not stay or position body or face above or in direction of the vent, because in the event of any vent operation, the releasing gas temperature may have over 100 °C.

In case of contact with the electrolyte on skin, wash the skin immediately with soap and water. If the eyes will get in contact with the releasing gas, immediately wash the eyes with water. Whether the gas was inhaled, directly use gargle.

1.14.1 Additional Requirements for Aluminum Polymer Capacitors

Circuits and Designs where the usage of Aluminum Polymer Capacitors is prohibited are:

- a) High-impedance circuits
- b) Coupling Circuits
- c) Time Constant Circuits

Due to thermal stress the leakage of Aluminum Polymer Capacitor can vary within the above stated applications.

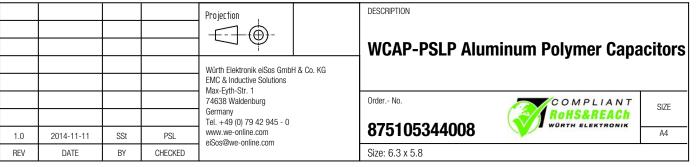
If you want to use two or more Aluminum Polymer Capacitors in series connection for circuit designs, which are significantly affected by leakage current, please contact our technical staff before usage.

1.15 Disposal

Please contact your local responsible or organization for proper disposal of capacitor.

Also take care to be compliant in order to your local governmental law and restrictions. In case incineration, it should be done with more than 800 °C. Lower temperatures at incineration can result in toxic gases (e.g. chlorine). To avoid any explosion of capacitor, punch holes into the can or crush the capacitor before incineration.





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 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.

				Projection -		DESCRIPTION WCAP-PSLP Alui	minum Polymer Capa	citors
				Würth Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions				
				Max-Eyth-Str. 1 74638 Waldenburg Germany		Order No.	COMPLIANT	SIZE
1.0	2014-11-11	SSt	PSL	Tel. +49 (0) 79 42 945 - 0 www.we-online.com eiSos@we-online.com		875105344008	WÜRTH ELEKTRONIK	A4
REV	DATE	BY	CHECKED	GIOUS WE-UTIMIE.CUIT		Size: 6.3 x 5.8		



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

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001:
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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