



Series 204

Surface Mount Multi-Functional DIP Switch

- Coplanarity: 0.1mm/.004" maximum
- Enclosed actuators shield contacts from foreign particles throughout life of switch
- Available with SPST, SPDT, DPST, 3PST circuitry choices
- Optional top tape seal for board spray washing

Description

Integral terminal and contact molded into thermoset base provides electrostatic discharge protection rated to 22KV. Optimized gold plated contact design incorporates a dimple wiping interface for long-term contact corrosion resistance.

Ordering Information

Series	Number of Poles	Number of Throws	Number of Switch Positions	Actuator Height	Bottom Epoxy Seal	Top Tape Seal	Tape and Reel	Actuation Preset																																																																									
204-	1	2	1	E	S	T	R	N																																																																									
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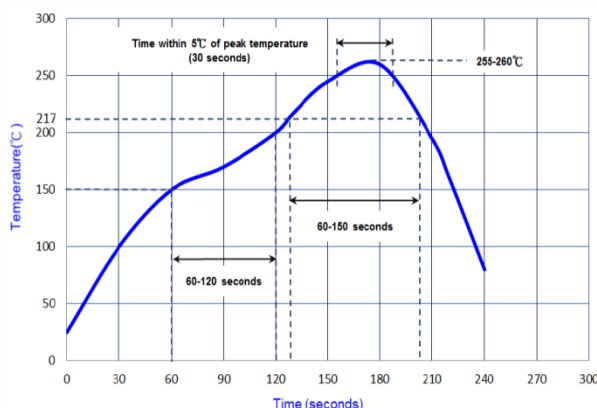
Electrical Specifications

Parameter	Conditions & Remarks	Min	Max	Unit
Circuit	SPST	2	12	positions
	SPDT	1	6	
	DPST	1	6	
	3PST	1	4	
Contact Resistance	Initial		50	milliohms
	At end of life		100	
Insulation Resistance	Between insulated terminals	1000		megohms
Dielectric Strength	500 VAC between adjacent switches		1	minute
Actuation Life	50mA @ 24 VDC		5,000	cycles
Switch Capacitance	Between adjacent closed switches		5.0	pF
Nonswitching Rating			100	mA
			50	VDC
Coplanarity			0.1	mm
			0.004	inch

Mechanical and Environmental

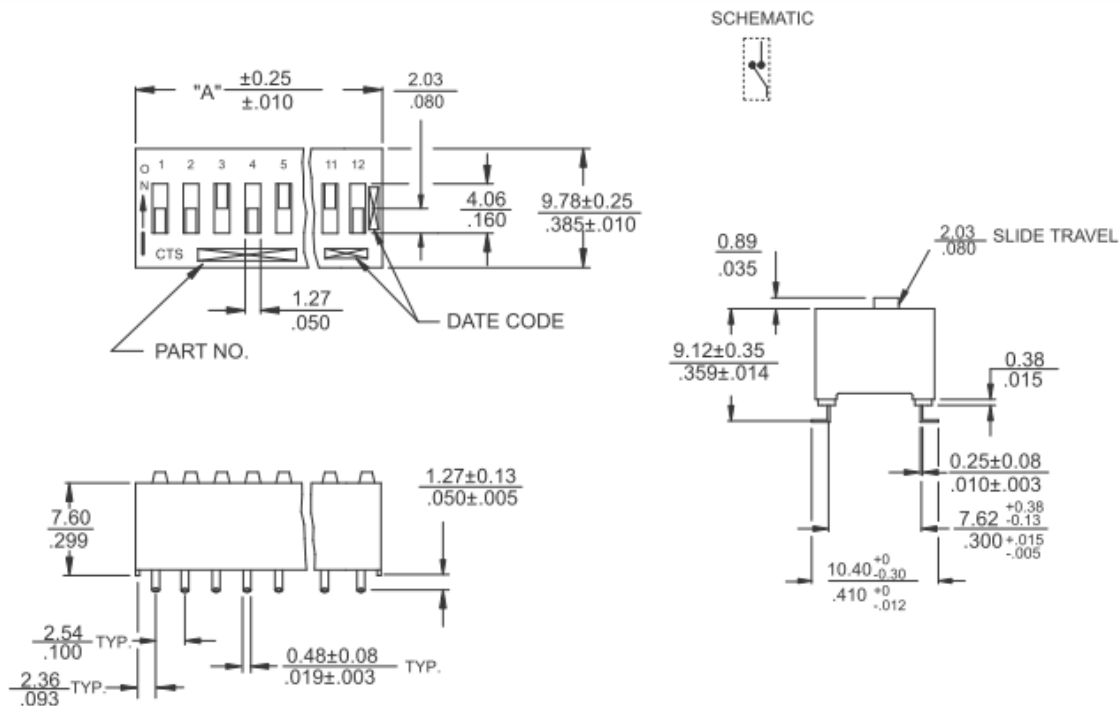
Soldering	Maximum reflow temperature, 250°C for 30 seconds
MSL	Level 1
RoHS	Lead-Free. Fully compliant to RoHS Directive 2011/65/EU
Shock	Per MIL-STD-202F, method 213B, condition A(50G's) with no contact inconsistencies greater than 1 microsecond
Vibration	Per MIL-STD-202F, method 204D, condition B (.06" or 15G's between 10 HZ to 2K HZ) with no contact inconsistencies greater than 1 microsecond
Seal	Bottom epoxy seal
	Top tape seal optional
Marking	Special side or top marking available-consult CTS
Packaging:	Standard anti-static tube packaging, optional tape and reel packaging
Operating Temperature Range	-40°C to +85°C
Storage Temperature Range	-55°C to +85°C

Soldering Profile



Mechanical Specifications

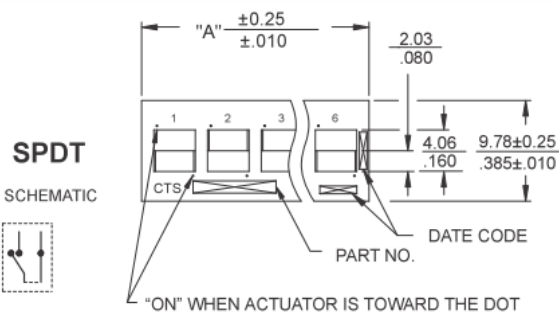
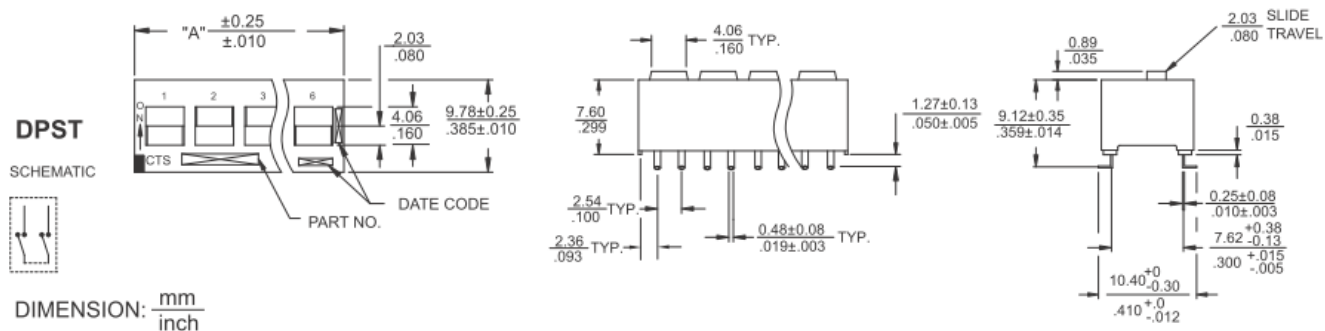
Figure 1 - SPST



DIMENSION: $\frac{\text{mm}}{\text{inch}}$

"A" Overall Dimension	No. of Switch Positions	Part No.
7.26 / .286	2	204-2
9.80 / .386	3	204-3
12.34 / .486	4	204-4
14.88 / .586	5	204-5
17.42 / .686	6	204-6
19.96 / .786	7	204-7
22.50 / .886	8	204-8
25.04 / .986	9	204-9
27.58 / 1.086	10	204-10
32.66 / 1.286	12	204-12

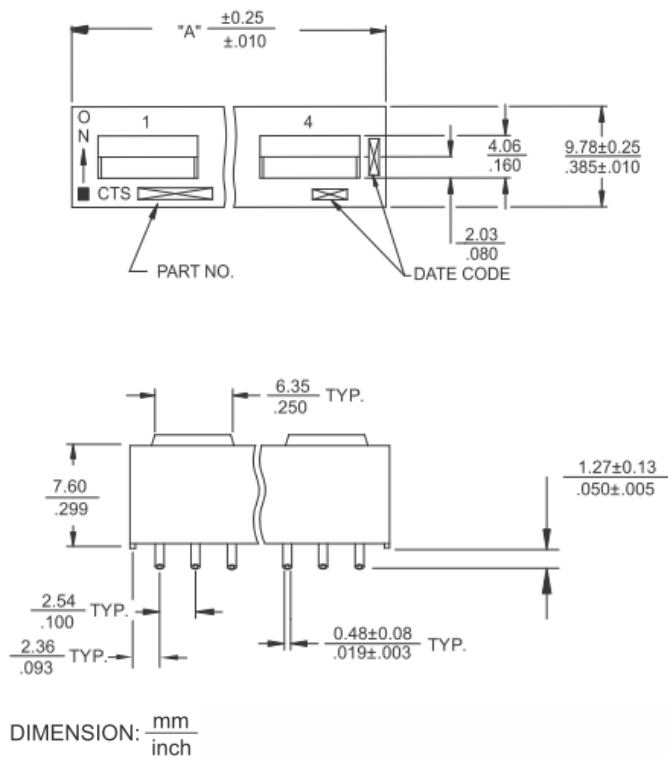
Figure 2 – SPDT/DPST



Ordering Information SPDT/DPST Switches

"A" Overall Dimension	Number of Switch Positions	Actuation	Part No.
7.26 / .286	1	SPDT/DPST	204-121/204-211
12.34 / .486	2	SPDT/DPST	204-122/204-212
17.42 / .686	3	SPDT/DPST	204-123/204-213
22.50 / .886	4	SPDT/DPST	204-124/204-214
27.58 / 1.086	5	SPDT/DPST	204-125/204-215
32.66 / 1.286	6	SPDT/DPST	204-126/204-216

Figure 3 - 3PST



Ordering Information 3PST Switches

"A" Overall Dimension	No. of Switch Positions	Actuation	Part No.
9.80 / .386	1	3PST	204-311
17.42 / .686	2	3PST	204-312
25.04 / .986	3	3PST	204-313
32.66 / 1.286	4	3PST	204-314

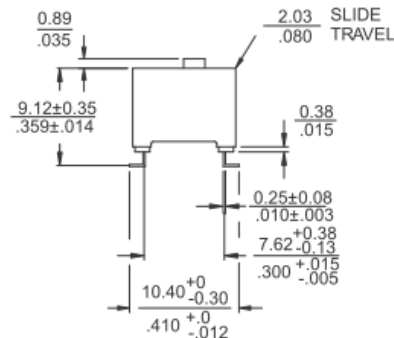
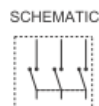
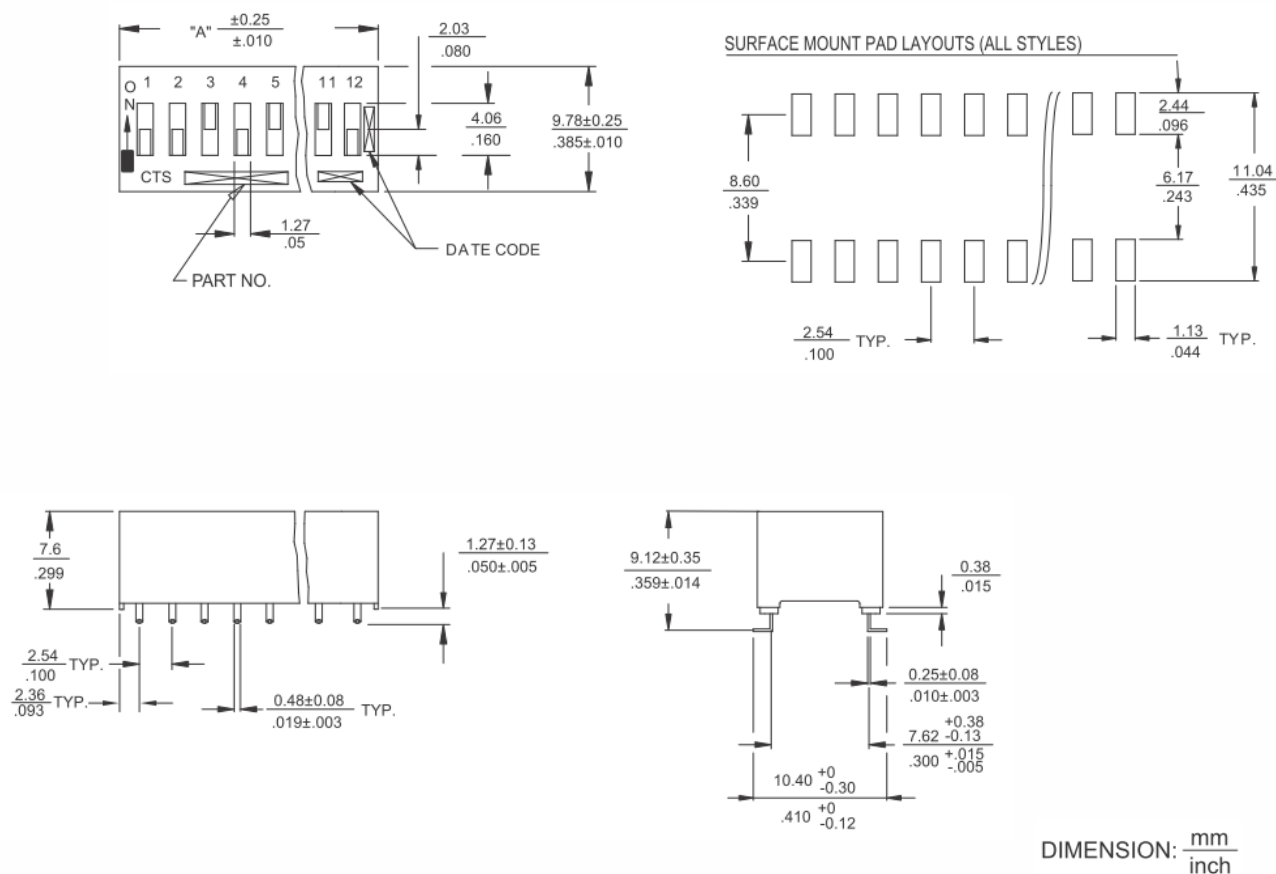


Figure 4 – Low Profile Actuators (SPST&SPDT only)



Packing: Tape and Reel

Unit: mm

SW Section	Fig	Bo	W	F	S
2	I	7.15	24.0	11.50	-
3	I	9.69	24.0	11.50	-
4	I	12.23	24.0	11.50	-
5	II	14.81	32.0	14.20	28.4
6	II	17.35	32.0	14.20	28.4
8	II	22.40	44.0	20.20	40.4
12	II	32.56	44.0	20.20	40.4

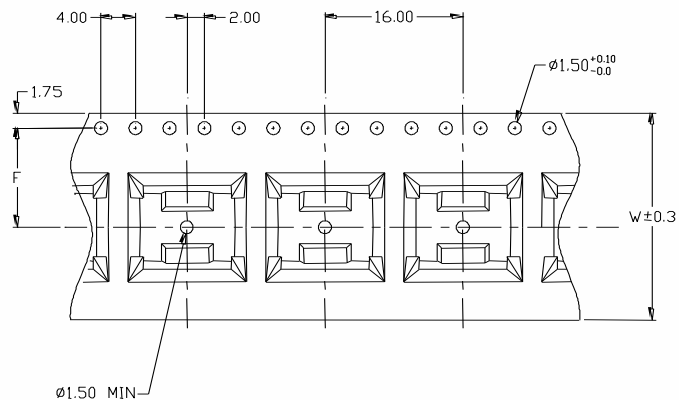


FIG I

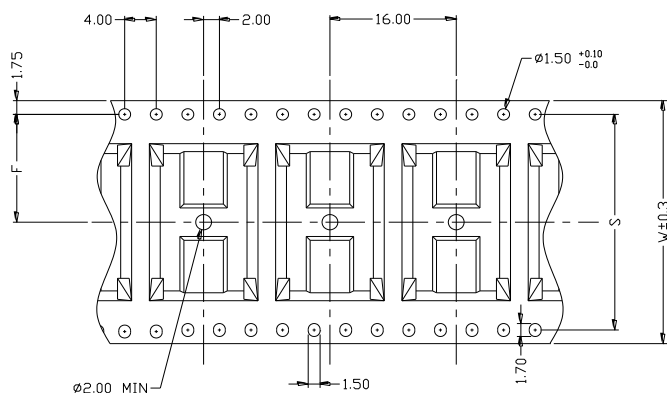
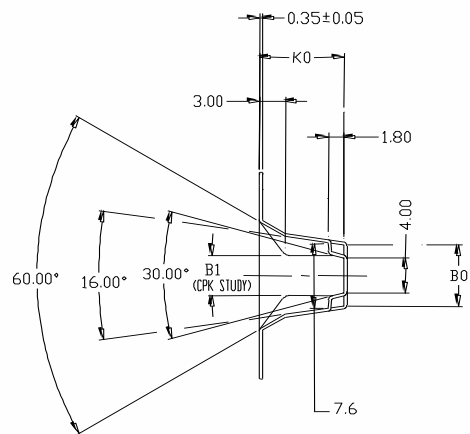
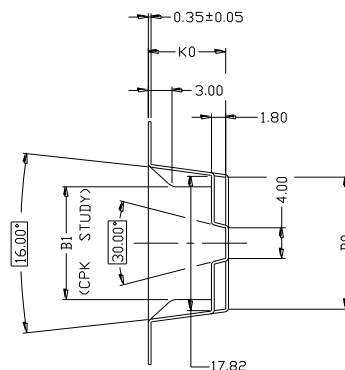


FIG II

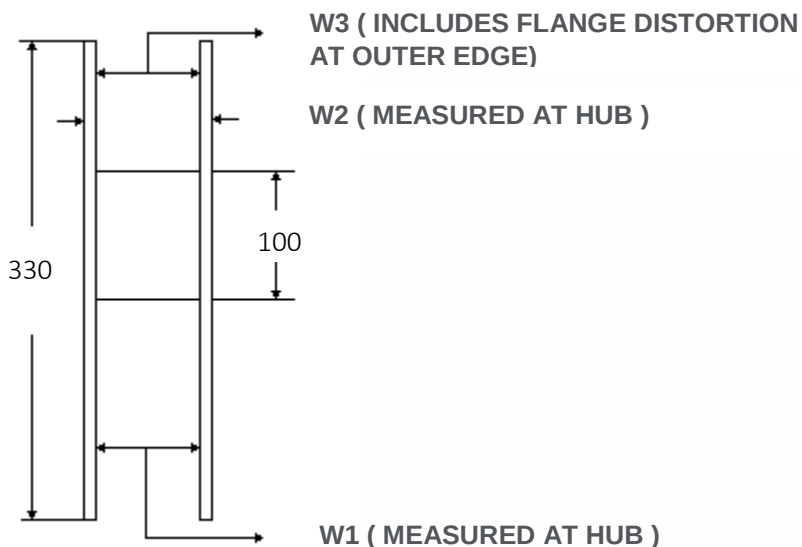


SPECIFIED REEL PARTS DIMENSIONS:

Unit: mm

SW Section	W1	W2	W3
2~4	24.4	30.4 MAX.	23.9 MIN./27.4 MAX.
5~6	32.4	38.4 MAX.	31.9 MIN./35.4 MAX.
8	44.4	50.4 MAX.	43.9 MIN./47.4 MAX.
12	44.4	50.4 MAX.	43.9 MIN./47.4 MAX.

(SEE PICTURE FIG)

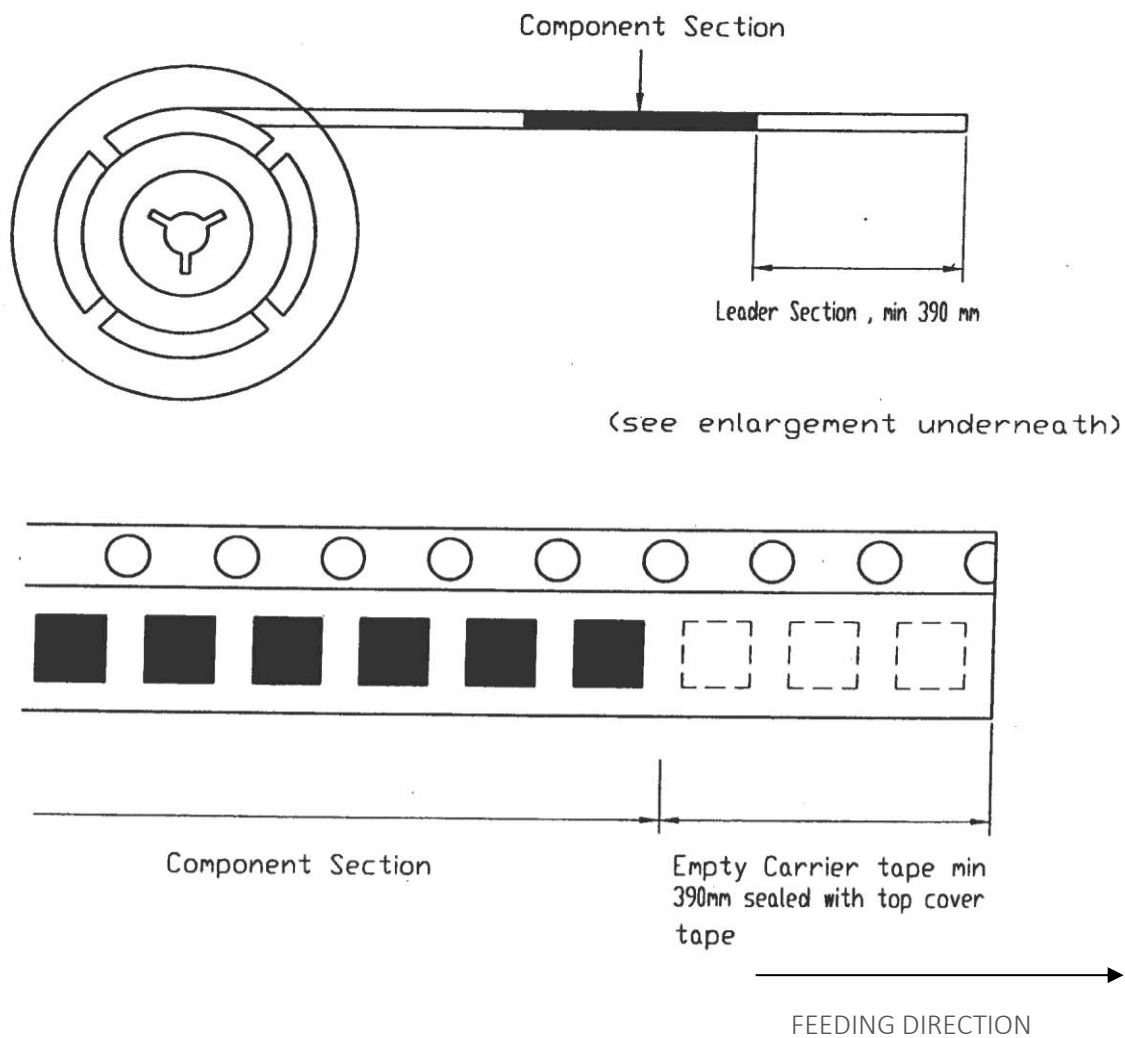


1. TAPE SPROCKET HOLE PITCH : $4.0 \pm 0.1\text{MM}$
 2. ALL SMT ASSEMBLING MACHINES WILL PICK-UP THE COMPONENT FROM THE POINT, WHICH
 3. IS LOCATED IN THE CENTRE OF TWO ADJACENT SPROCKET HOLES IN FEEDING DIRECTION. THIS MUST BE TAKEK INTO ACCOUNT WHEN DESIGNING THE LOCATION OF THE COMPONENT IN T&R POCKET.
 4. RECOMMENDED PART ORIENTATION IN TAPE & REEL POCKET.
- ORIENT SWITCH TERMINAL #1 TO THE SIDE OF ROUND SPROCKET HOLES, SEE PICTURE BELOW.



LENGTH OF TAPE

5. THERE SHALL BE A LEADER OF 390mm MINIMUM WHICH IS SEALED ONTO EMPTY CARRIER TAPE, SEE PICTURE BELOW.





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;
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- 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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