Features/Benefits

- ***Sealed against solder and cleaning process contaminants***
- ***Ultraminiature size, smallest footprint available***
- ***Thru-hole and surface mount models***
- ***High temperature materials (UL 94V-0)***
- ***RoHS compliant and compatible***

Typical Applications

- ***Hand-held telecommunications***
- ***Small instrumentation***

Specifications

CONTACT RATING: 0.4 VA max. @ 20 V AC or DC max.

MECHANICAL & ELECTRICAL LIFE: 40,000 make-and-break cycles at full load.

CONTACT RESISTANCE: Below 50 m Ω typ. initial @ 2-4 V DC, 100 mA.

INSULATION RESISTANCE: 10^9 Ω min.

DIELECTRIC STRENGTH: 500 Vrms min. @ sea level.

OPERATING TEMPERATURE: –30ºC to 85ºC.

SOLDERABILITY: Per MIL-STD-202F method 208D, or EIA RS-186E method 9 (1 hour steam aging).

PACKAGING: Surface mount switches shipped in anti-static tape and reel packaging per EIA 481-3, see page F-47 for drawings and reel information. Tape and cover strip are conductive for use near statically sensitive components, consult Customer Service Center.

Materials

HOUSING AND BASE: Glass filled nylon 4/6, flame retardant, heat stabilized (UL 94V-0).

ACTUATOR: Glass filled nylon 4/6, flame retardant, heat stabilized (UL 94V-0), with standard internal o-ring seal.

SWITCH SUPPORT: Brass, tin plated.

MOVABLE CONTACTS: Copper alloy, with gold plate over nickel plate.

STATIONARY CONTACTS: Copper alloy, with gold plate over nickel plate.

TERMINALS: Gold.

TERMINAL SEAL: Epoxy. All terminals insert molded.

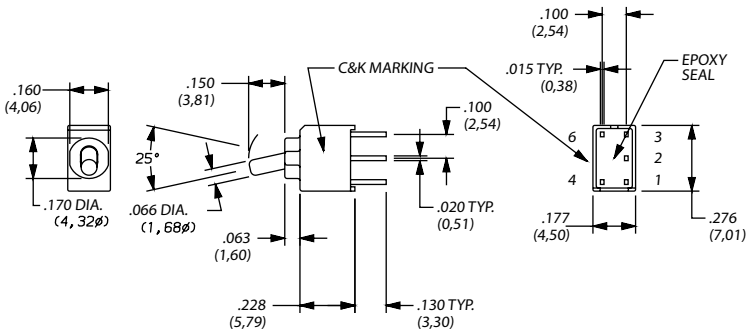
NOTE: Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.

How To Order

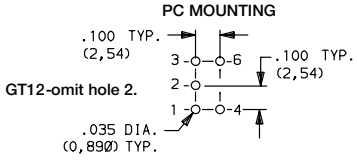
Complete part numbers for GT Series Sealed Ultraminiature Toggle Switches are shown on pages F–43 thru F–47.

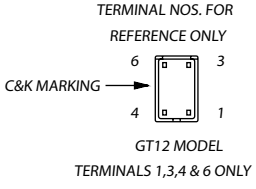
GT11MCBE
SPDT

PART NUMBER	SWITCH FUNCTION POS.1	POS. 2	POS. 3
GT11MCBE	ON	NONE	ON
GT13MCBE	ON	OFF	ON
Conn. Terms.	2-3	OPEN	2-1
Schematic	2 (COMM) 1 3		
SPDT	Note: Pins 4 and 6 not connected		
GT12MCBE	OFF	NONE	ON
Conn. Terms.	OPEN	N/A	3-1
Schematic	1 3		
SPST	Note: Pins 4 and 6 not connected		

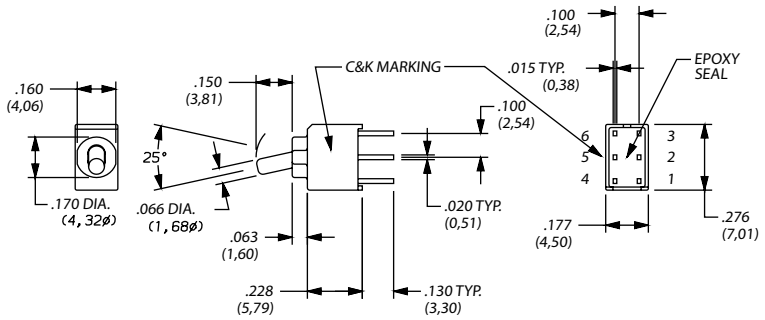


ACTUATOR SHOWN IN POS. 1



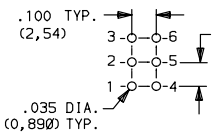


GT Series
Sealed Ultraminiature Toggle Switches



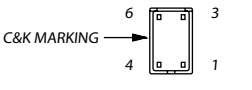
ACTUATOR SHOWN IN POS. 1

PC MOUNTING



GT22-omit holes 2 & 5.

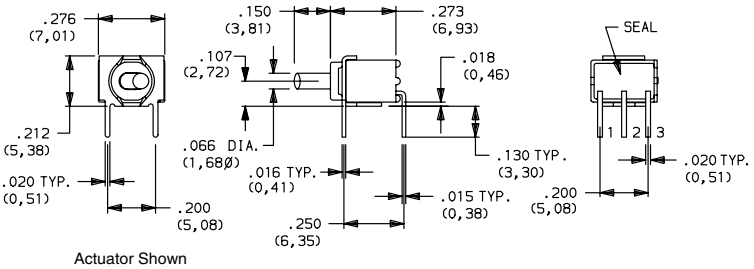
TERMINAL NOS. FOR REFERENCE ONLY



GT22 MODEL TERMINALS 1,3,4 & 6 ONLY

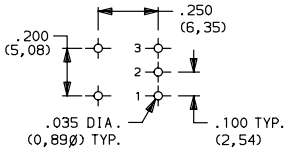
PART NUMBER	SWITCH FUNCTION POS.1	POS. 2	POS. 3
GT21MCBE GT23MCBE	ON ON	NONE OFF	ON ON
Conn. Terms.	2-3, 5-6	OPEN	2-1, 5-4
Schematic DPDT	2 (COMM) 5; 1 3 4 6		
GT22MCBE	OFF	NONE	ON
Conn. Terms.	OPEN	N/A	3-1
Schematic DPST	3 6; 1 4		

GT21MCBE
DPDT

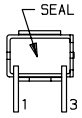


Actuator Shown In Pos. 1

PC MOUNTING



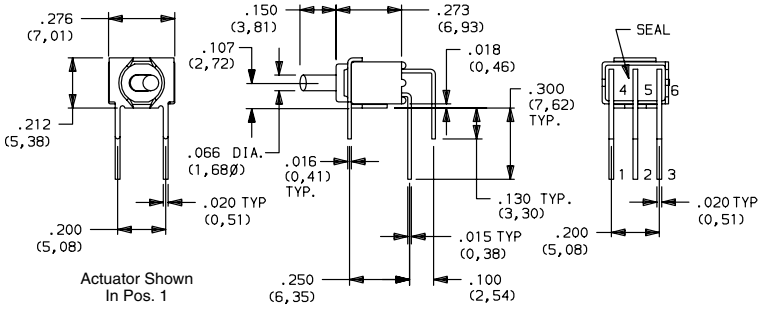
GT12-omit hole 2.



GT12 Models

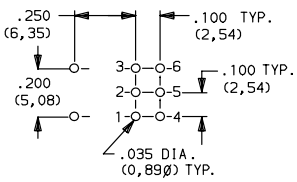
PART NUMBER	SWITCH FUNCTION POS.1	POS. 2	POS. 3
GT11MABE GT13MABE	ON ON	NONE OFF	ON ON
Conn. Terms.	2-3	OPEN	2-1
Schematic SPDT	2 (COMM); 1 3		
GT12MABE	OFF	NONE	ON
Conn. Terms.	OPEN	N/A	3-1
Schematic SPST	1 3		

GT11MABE
Horizontal
Actuation
SPDT

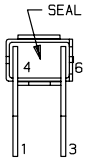


Actuator Shown In Pos. 1

PC MOUNTING



GT22-omit holes 2 & 5.



GT22 Models

PART NUMBER	SWITCH FUNCTION POS.1	POS. 2	POS. 3
GT21MABE GT23MABE	ON ON	NONE OFF	ON ON
Conn. Terms.	2-3, 5-6	OPEN	2-1, 5-4
Schematic DPDT	2 (COMM) 5; 1 3 4 6		
GT22MABE	OFF	NONE	ON
Conn. Terms.	OPEN	N/A	3-1, 6-4
Schematic DPST	3 6; 1 4		

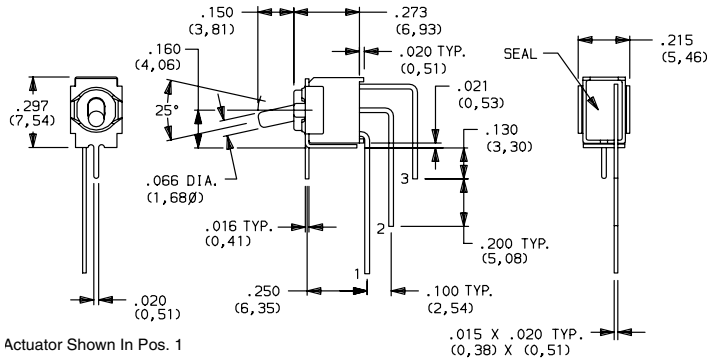
GT21MABE
Horizontal
Actuation
DPDT

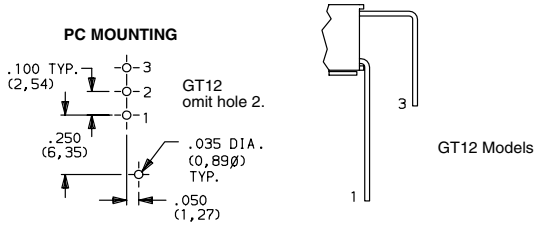
Third Angle Projection

Dimensions are shown: Inches (mm)
Specifications and dimensions subject to change

GT11MAVBE
Vertical
Actuation
SPDT

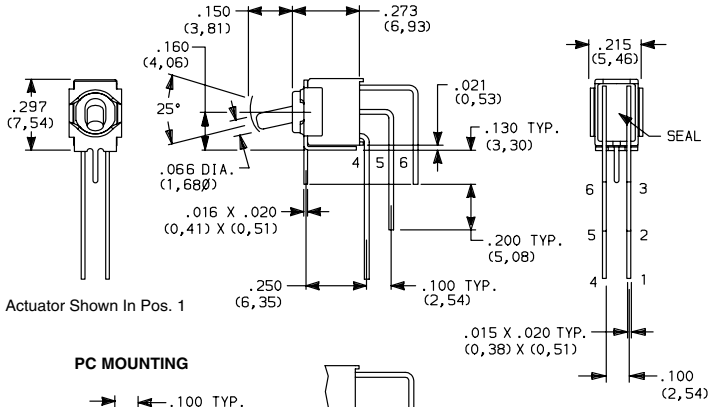
PART NUMBER	SWITCH FUNCTION POS.1	POS. 2	POS. 3
GT11MAVBE	ON	NONE	ON
GT13MAVBE	ON	OFF	ON
Conn. Terms.	2-3	OPEN	2-1
Schematic SPDT	2 (COMM), 1, 3		
GT12MAVBE	OFF	NONE	ON
Conn. Terms.	OPEN	N/A	3-1
Schematic SPST	1, 3		

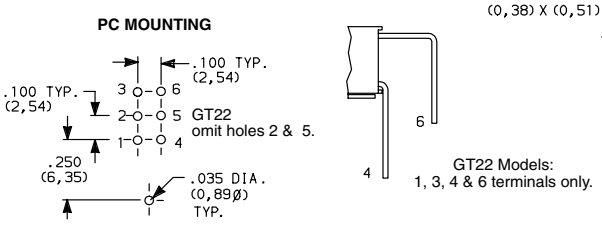




GT21MAVBE
Vertical
Actuation
DPDT

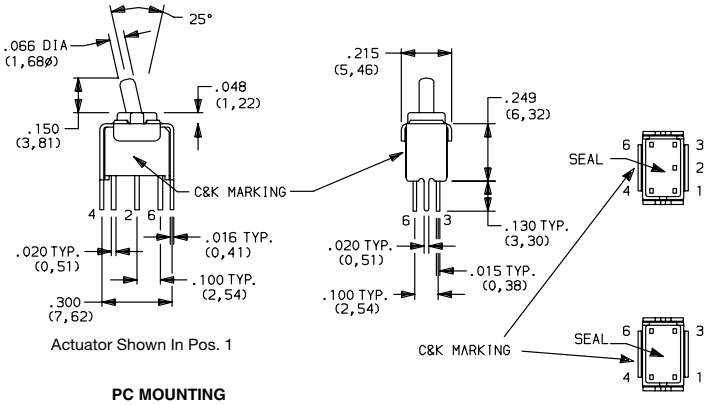
PART NUMBER	SWITCH FUNCTION POS.1	POS. 2	POS. 3
GT21MAVBE	ON	NONE	ON
GT23MAVBE	ON	OFF	ON
Conn. Terms.	2-3, 5-6	OPEN	2-1, 5-4
Schematic DPDT	2 (COMM), 5, 1, 3, 4, 6		
GT22MAVBE	OFF	NONE	ON
Conn. Terms.	OPEN	N/A	3-1, 6-4
Schematic DPST	3, 6, 1, 4		

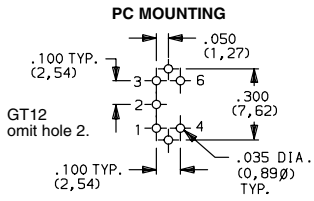




GT11MV3BE
SPDT

PART NUMBER	SWITCH FUNCTION POS.1	POS. 2	POS. 3
GT11MV3BE	ON	NONE	ON
GT13MV3BE	ON	OFF	ON
Conn. Terms.	2-3	OPEN	2-1
Schematic SPDT	2 (COMM), 1, 3 — Note: Pins 4 and 6 not connected		
GT12MV3BE	OFF	NONE	ON
Conn. Terms.	OPEN	N/A	3-1
Schematic SPST	1, 3 — Note: Pins 4 and 6 not connected		



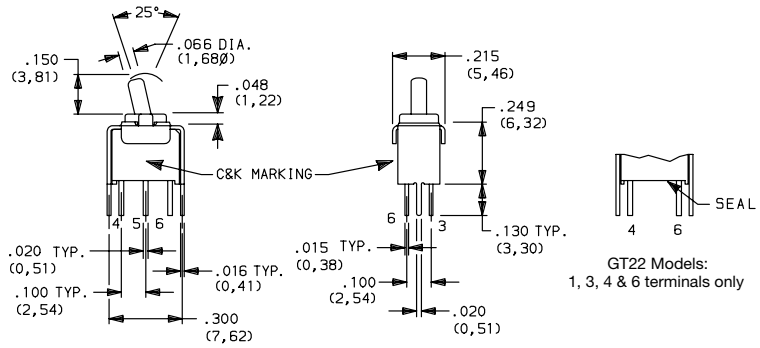


Third Angle Projection

Dimensions are shown: Inches (mm)
Specifications and dimensions subject to change

GT Series
Sealed Ultraminiature Toggle Switches

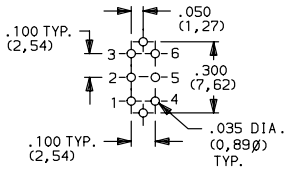
GT21MV3BE
DPDT



Actuator Shown
In Pos. 1

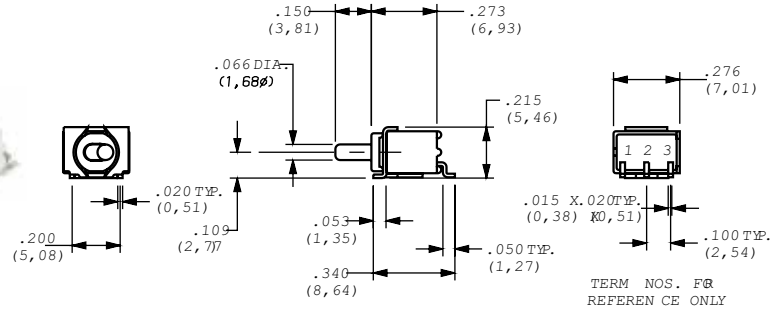
GT22 Models:
1, 3, 4 & 6 terminals only

PC MOUNTING

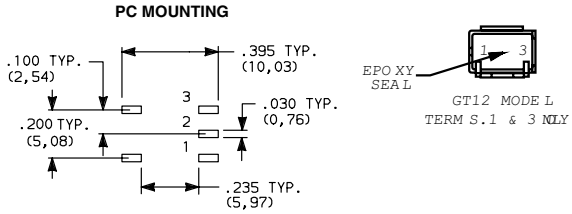


PART NUMBER	SWITCH FUNCTION POS.1	POS. 2	POS. 3
GT21MV3BE	ON	NONE	ON
GT23MV3BE	ON	OFF	ON
Conn. Terms.	2-3, 5-6	OPEN	2-1, 5-4
Schematic DPDT	2 (COMM) 5; 1 3; 4 6		
GT22MV3BE	OFF	NONE	ON
Conn. Terms.	OPEN	N/A	3-1, 6-4
Schematic DPST	3 6; 1 4		

GT11MSABE
Horizontal
Actuation
SPDT



PC MOUNTING

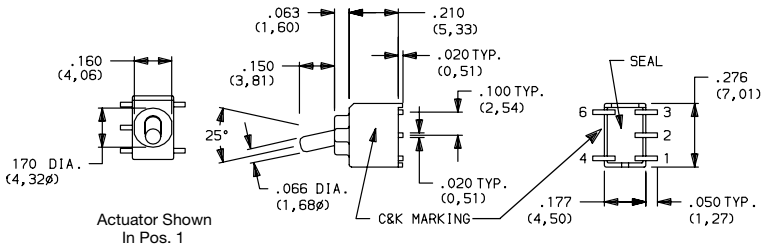


Standard with tape & reel packaging, see page F-47.

GT12-omit pad 2.

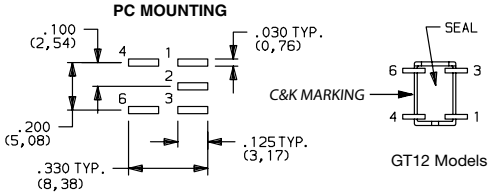
PART NUMBER	SWITCH FUNCTION POS.1	POS. 2	POS. 3
GT11MSABETR	ON	NONE	ON
GT13MSABETR	ON	OFF	ON
Conn. Terms.	2-3	OPEN	2-1
Schematic SPDT	2 (COMM); 1 3		
GT12MSABETR	OFF	NONE	ON
Conn. Terms.	OPEN	N/A	3-1
Schematic SPST	1 3		

GT11MSCBE
SPDT



Actuator Shown
In Pos. 1

PC MOUNTING



GT12 Models

GT12-omit pad 2.

Standard with tape & reel packaging, see page F-47.

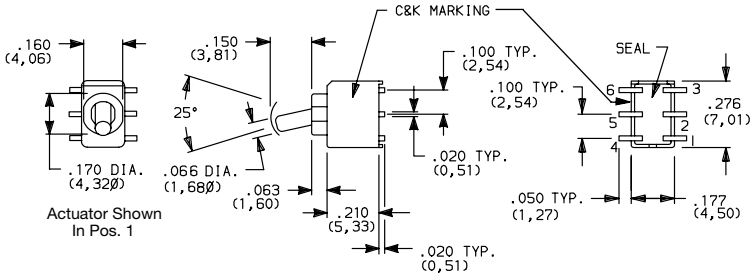
PART NUMBER	SWITCH FUNCTION POS.1	POS. 2	POS. 3
GT11MSCBETR	ON	NONE	ON
GT13MSCBETR	ON	OFF	ON
Conn. Terms	2-3	OPEN	2-1
Schematic SPDT	2 (COMM); 1 3	Note: Pins 4 and 6 not connected	
GT12MSCBETR	OFF	NONE	ON
Conn. Terms.	OPEN	N/A	3-1
Schematic SPST	1 3	Note: Pins 4 and 6 not connected	

Third Angle
Projection

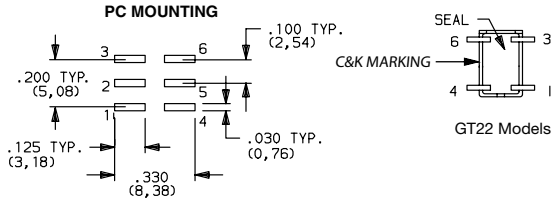
Dimensions are shown: Inches (mm)
Specifications and dimensions subject to change

GT21MSCBE
DPDT

PART NUMBER	SWITCH FUNCTION POS.1	POS. 2	POS. 3
GT21MSCBETR	ON	NONE	ON
GT23MSCBETR	ON	OFF	ON
Conn. Terms.	2-3, 5-6	OPEN	2-1, 5-4
Schematic DPDT	2 (COMM) 5; 1 3; 4 6		
GT22MSCBETR	OFF	NONE	ON
Conn. Terms.	OPEN	N/A	3-1, 6-4
Schematic DPST	3 6; 1 4		



PC MOUNTING

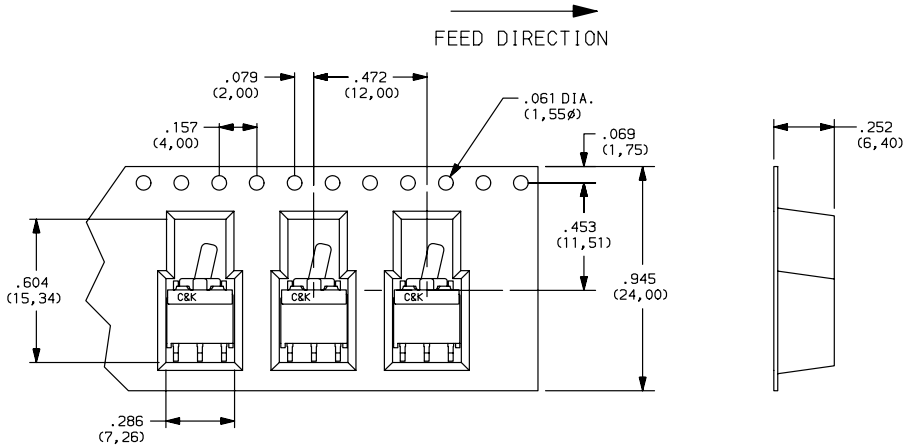


GT22-omit pads 2 & 5.

Standard with tape & reel packaging

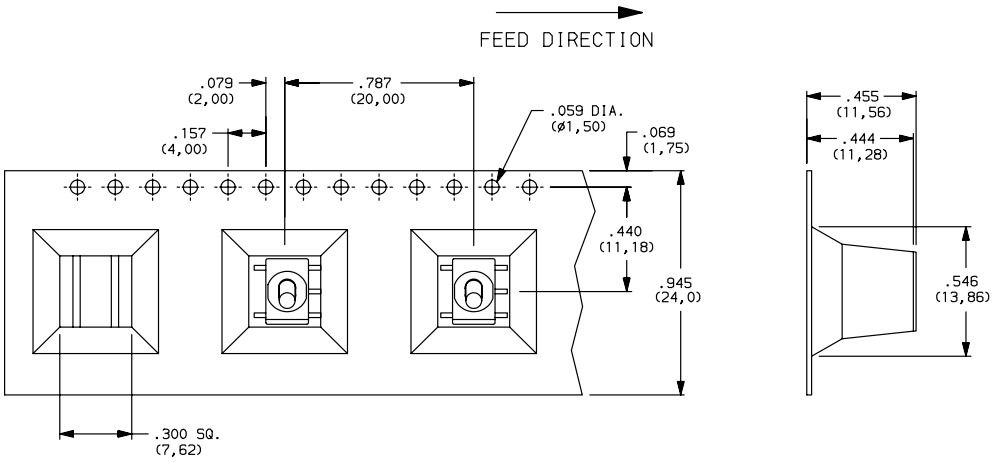
TAPE & REEL

For part numbers GT11MSABE, GT12MSABE, GT13MSABE



REEL INFORMATION	
OUTSIDE DIAMETER	13.00 (330,0)
PILOT HOLE	.512 (13,0)
QUANTITY PER REEL	600

For part numbers GT11MSCBE, GT12MSCBE, GT13MSCBE, GT21MSCBE, GT22MSCBE, GT23MSCBE,



REEL INFORMATION	
OUTSIDE DIAMETER	13.00 (330,0)
PILOT HOLE	.512 (13,0)
QUANTITY PER REEL	200

Third Angle Projection

Dimensions are shown: Inches (mm)
Specifications and dimensions subject to change

OCEAN CHIPS
Океан Электроники
Поставка электронных компонентов

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

Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Компания «Океан Электроники» является официальным дистрибьютором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения **«JONHON»**, а так же официальным дистрибьютором и эксклюзивным представителем в России производителя высокотехнологичных и надежных решений для передачи СВЧ сигналов **«FORSTAR»**.

AVIC JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели, кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).

FORSTAR®

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Факс: 8 (812) 320-03-32
Электронная почта: ocean@oceanchips.ru
Web: http://oceanchips.ru/
Адрес: 198099, г. Санкт-Петербург, ул. Калинина, д. 2, корп. 4, лит. А