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Part Number: [0876682004](#)
Status: **Active**
Overview: [extreme_powerplus_ssi](#)
Description: 6.35mm (.250") Pitch, Power, 2.54mm (.100") Pitch, Signal, EXTreme PowerPlus™ S-Pb Receptacle, Through Hole, Right Angle, Beveled Metal Pins, 0.76µm (30µ") Gold (Au) Plating, 30 Circuits, Signal 24, Power Beta 6, No Void Pin, Leadfree

Documents:
[3D Model](#) [Product Specification PS-87631-006 \(PDF\)](#)
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

Agency Certification

CSA	LR19980
UL	E29179

General

Product Family	PCB Receptacles
Series	87668
Application	Board-to-Board
Comments	Void Signal Pin: Nil
Overview	extreme_powerplus_ssi
Product Literature Order No	987650-3002
Product Name	EXTreme PowerPlus™

Physical

Circuits (Loaded)	30
Circuits Detail	Signal 24, Power Beta 6
Color - Resin	Black
Durability (mating cycles max)	100
Flammability	94V-0
Glow-Wire Compliant	No
Guide to Mating Part	Yes
Lock to Mating Part	Yes
Mated Height (in)	0.495 In
Mated Height (mm)	12.57 mm
Material - Metal	High Performance Alloy (HPA), Phosphor Bronze
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	High Temperature Thermoplastic
Number of Rows	4
Orientation	Right Angle
PC Tail Length (in)	0.135 In
PC Tail Length (mm)	3.43 mm
PCB Locator	Yes
PCB Retention	Yes
PCB Thickness Recommended (in)	0.062 In
PCB Thickness Recommended (mm)	1.60 mm
Packaging Type	Tray
Pitch - Mating Interface (in)	0.100 In, 0.250 In
Pitch - Mating Interface (mm)	2.54 mm, 6.35 mm
Plating min: Mating (µin)	30.4
Plating min: Mating (µm)	0.76
Plating min: Termination (µin)	101.6
Plating min: Termination (µm)	2.54
Polarized to Mating Part	Yes
Polarized to PCB	Yes

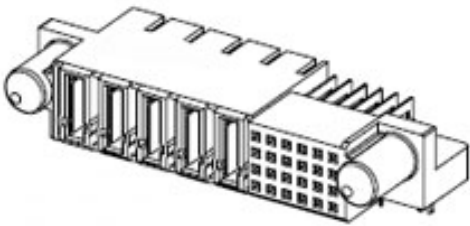


image - Reference only

Series

EU RoHS

**ELV and RoHS
Compliant**

REACH SVHC

Not Reviewed

Halogen-Free

Status

Halogen-Free

**Need more information on product
environmental compliance?**

Email productcompliance@molex.com
For a multiple part number RoHS Certificate of
Compliance, [click here](#)

Please visit the [Contact Us](#) section for any
non-product compliance questions.

China RoHS



Search Parts in this Series

[87668Series](#)

Mates With

[87667](#) EXTreme PowerPlus™ Right Angle
S-Pb Header

Surface Mount Compatible (SMC)	Yes
Temperature Range - Operating	-20°C to +105°C
Termination Interface: Style	Through Hole

Electrical

Current - Maximum per Contact	2.5A, 30A
Voltage - Maximum	50V DC

Solder Process Data

Duration at Max. Process Temperature (seconds)	10
Lead-free Process Capability	SMC & Wave Capable (TH only)
Max. Cycles at Max. Process Temperature	3
Process Temperature max. C	260

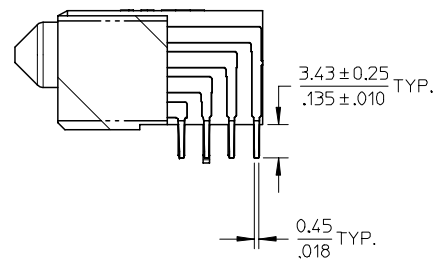
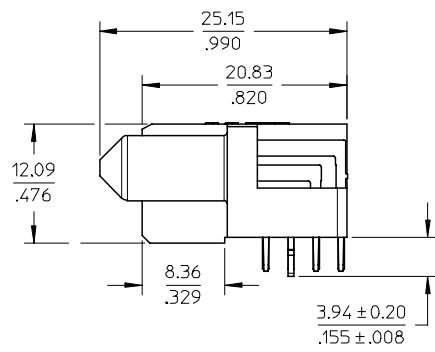
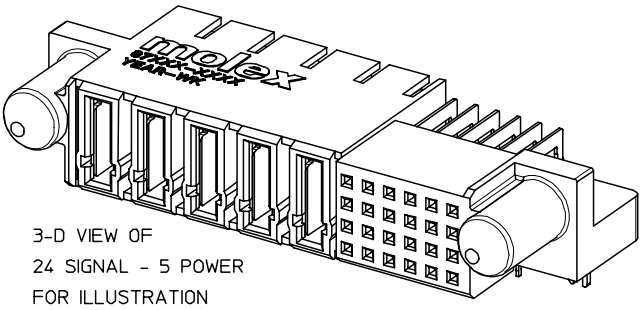
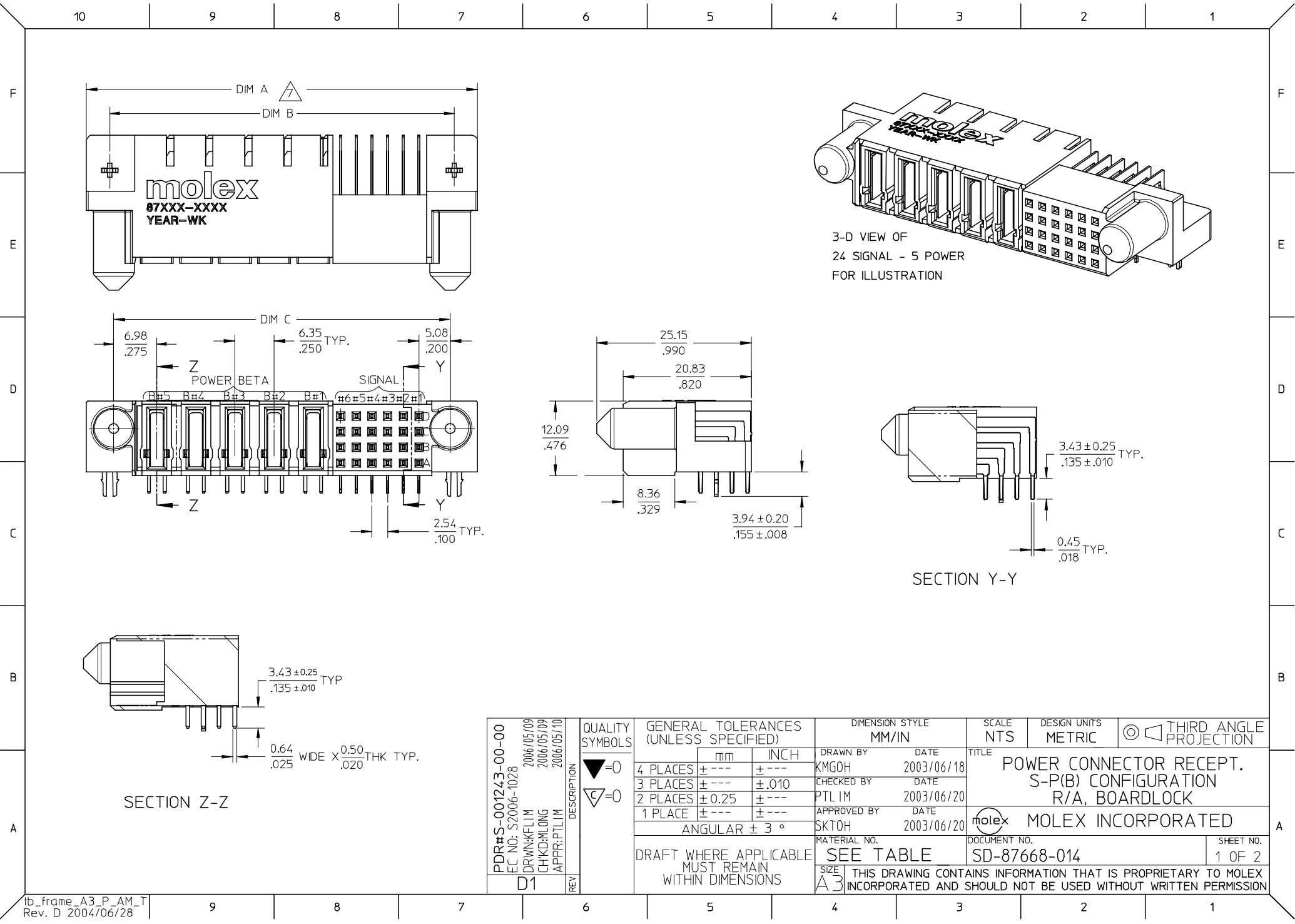
Material Info

Reference - Drawing Numbers

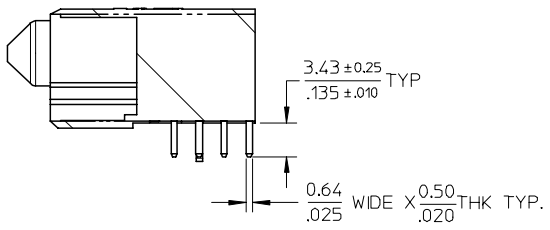
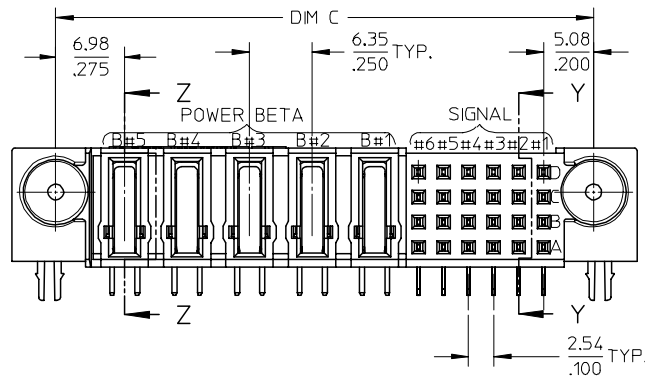
Application Specification	AS-87631-018
Product Specification	PS-87631-006
Sales Drawing	SD-87668-014

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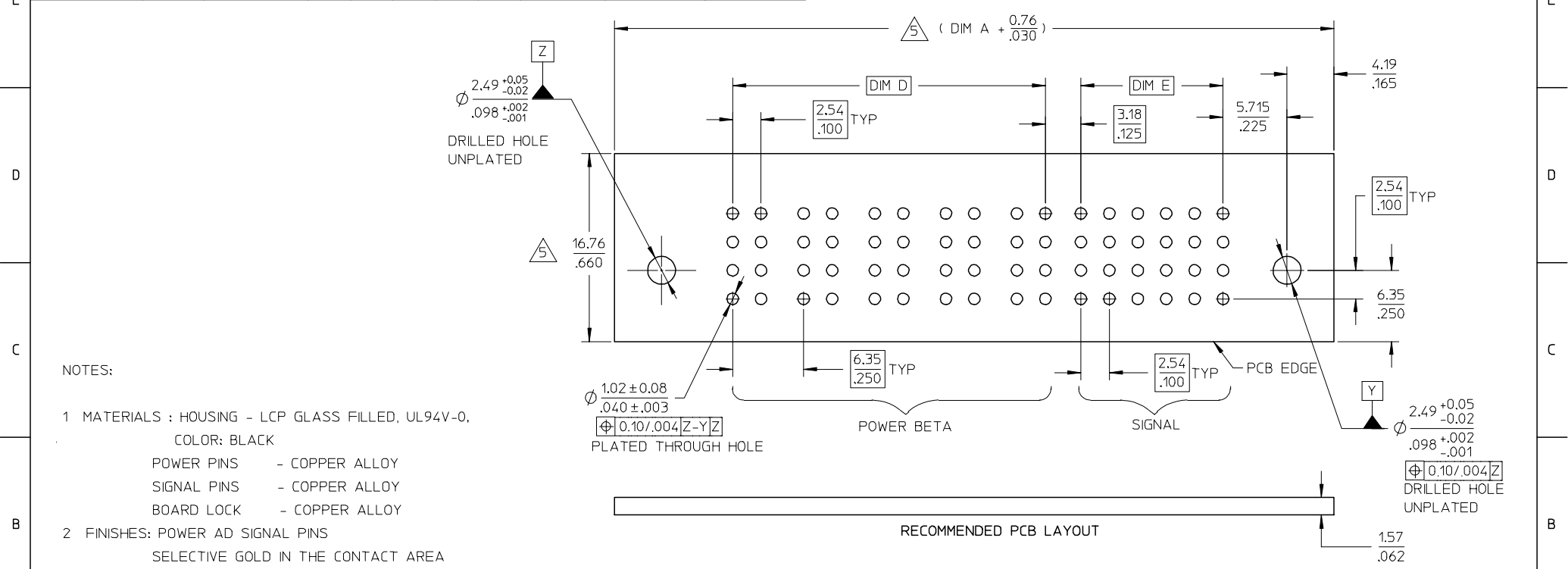
SECTION Y-Y



SECTION Z-Z

PDR#S-001243-00-00 EC NO: S2006-1028 DRWN:KFLIM CHKD:MLONG APPR:PTLIM	2006/05/09 2006/05/10	DESCRIPTION REV	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM/IN		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
						DRAWN BY DATE		TITLE POWER CONNECTOR RECEPT. S-P(B) CONFIGURATION R/A, BOARDLOCK			
						2003/06/18					
						CHECKED BY DATE					
						PTLIM 2003/06/20		MOLEX MOLEX INCORPORATED			
						APPROVED BY DATE					
						2003/06/20		DOCUMENT NO. SD-87668-014			
						SKT0H					
						MATERIAL NO.		SHEET NO. 1 OF 2			
		SEE TABLE									
		SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							

	10	9	8	7	6	5	4	3	2	1	
	PART NUMBER	S-P CONFIGURATION		DIM A	DIM B	DIM C	DIM D	DIM E	VOID PIN LOCATION	PACKAGING	STATUS
		SIGNAL	POWER BETA								
F	87668-2002	24	10	95.25 3.750	87.63 3.450	86.36 3.400	59.69 2.350	12.70 .500	NIL	TRAY	TOOLED
	87668-2003	20	4	54.61 2.150	46.99 1.850	45.72 1.800	21.59 .850	10.16 .400	NIL	TRAY	TOOLED
	87668-2004	24	6	69.85 2.750	62.24 2.450	60.96 2.400	34.29 1.350	12.70 .500	NIL	TRAY	TOOLED
	87668-2006	24	12	107.95 4.250	100.33 3.950	99.06 3.900	72.39 2.850	12.70 .500	NIL	TRAY	TOOLED
E	87668-2007	20	4	54.61 2.150	46.99 1.850	45.72 1.800	21.59 .850	10.16 0.400	A4,B4,C4,D4	TRAY	TOOLED



	PDR#S-001243-00-00	EC NO: S2006-1028	DRWN:KFLM	CHKD:M.LONG	APPR:PTLIM	REV	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE MM/IN	SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	TITLE	SHEET NO. 2 OF 2
									4 PLACES ± --- ± ---	DRAWN BY KMG0H	DATE 2003/06/18			POWER CONNECTOR RECEPT.	
									3 PLACES ± --- ± .010	CHECKED BY	DATE			S-P(B) CONFIGURATION	
									2 PLACES ± 0.25 ± ---	PTL IM	DATE 2003/06/20			R/A, BOARDLOCK	
									1 PLACE ± --- ± ---	APPROVED BY	DATE			MOLEX INCORPORATED	
									ANGULAR ± 3 °	SKT0H	DATE 2003/06/20				
									DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	MATERIAL NO.	DOCUMENT NO.				
									SEE TABLE	SD-87668-014					
									THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

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Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

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