

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0432498004](#)
Status: **Active**
Overview: [modular_plugs_jacks](#)
Description: Modular Jack, Right Angle, Low Profile, 8/8, Panel Stops

Documents:

3D Model	Product Specification PSX-43249 (PDF)
Drawing (PDF)	RoHS Certificate of Compliance (PDF)

Agency Certification

CSA	LR19980
UL	E107635

General

Product Family	Modular Jacks/Plugs
Series	43249
Component Type	PCB Jack
Magnetic	No
Overview	modular_plugs_jacks
Performance Category	3, 4
Power over Ethernet (PoE)	N/A
Product Name	RJ45

Physical

Boot Color	N/A
Color - Resin	Black
Durability (mating cycles max)	500
Flammability	94V-0
Inverted / Top Latch	No
Lightpipes/LEDs	None
Material - Metal	Phosphor Bronze
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	High Temperature Thermoplastic
Orientation	Right Angle (Side Entry)
PCB Locator	Yes
PCB Retention	Yes
PCB Thickness Recommended (in)	0.062 In
PCB Thickness Recommended (mm)	1.57 mm
Packaging Type	Tray
Pitch - Mating Interface (in)	0.040 In
Pitch - Mating Interface (mm)	1.02 mm
Pitch - Term. Interface (in)	0.050 In
Pitch - Term. Interface (mm)	1.27 mm
Plating min: Mating (µin)	50
Plating min: Mating (µm)	1.25
Plating min: Termination (µin)	100
Plating min: Termination (µm)	2.5
Ports	1
Positions / Loaded Contacts	8/8
Surface Mount Compatible (SMC)	Yes
Temperature Range - Operating	-40°C to +85°C
Termination Interface: Style	Through Hole
Waterproof / Dustproof	No
Wire/Cable Type	N/A

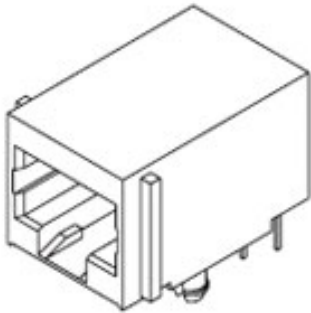


image - Reference only

Series

EU RoHS

**ELV and RoHS
Compliant**
REACH SVHC
Contains SVHC: No
Halogen-Free
Status

China RoHS



**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.

Search Parts in this Series
[43249Series](#)

Mates With
FCC 68 Plugs

Electrical

Current - Maximum per Contact	1.5A
Shielded	No
Voltage - Maximum	150V AC (RMS)

Solder Process Data

Duration at Max. Process Temperature (seconds)	5
Lead-free Process Capability	Wave Capable (TH only)
Process Temperature max. C	260

Material Info

Reference - Drawing Numbers

Packaging Specification	PK-43249-004
Product Specification	PSX-43249
Sales Drawing	SDA-43249

This document was generated on 06/07/2010

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NOTES:

1) MATERIAL:

HOUSING: NYLON(PA), GLASS FILLED, UL94V-0, COLOR: BLACK
INSULATOR: NYLON(PA), GLASS FILLED, UL94V-0, COLOR: BLACK
TERMINALS: PHOSPHOR BRONZE, .012/(0.30) THICK
SHIELD: BRASS, .007/(0.18) THICK

2) FINISH:

TERMINALS:

- A = SELECT GOLD IN CONTACT AREA: 50 MICROINCHES / 1.27 MICROMETERS MIN.,
*SELECT TIN IN PC TAIL AREA: 100 MICROINCHES / 2.54 MICROMETERS MIN.,
WITH OVERALL NICKEL UNDERPLATE: 50 MICROINCHES / 1.27 MICROMETERS MIN.
B = SELECT GOLD IN CONTACT AREA: 30 MICROINCHES / 0.76 MICROMETERS MIN.,
*SELECT TIN IN PC TAIL AREA: 100 MICROINCHES / 2.54 MICROMETERS MIN.,
WITH OVERALL NICKEL UNDERPLATE: 50 MICROINCHES / 1.27 MICROMETERS MIN.

SHIELD:

- *100 MICROINCHES / 2.54 MICROMETERS NICKEL OVER 50 MICROINCHES / 1.27 MICROMETERS COPPER UNDERPLATE, PCB GROUND TABS DIPPED IN TIN
*THE PRIMARY SHIPPING CARTON WILL BE LABELED "COMPLIANT TO RoHS DIRECTIVE 2002/95/EC AND ELV ANNEX II OF DIRECTIVE 2000/53/EC".
CARTONS WITHOUT THIS LABEL MAY CONTAIN PRODUCT WITH TIN-LEAD IN THE PC TAILS AND/OR SHIELD.

3) PRODUCT SPECIFICATION AND PROCESSING PARAMETERS: PS-43249.

4) PACKAGING SPECIFICATION:

- UNSHIELDED CONNECTOR ASSEMBLIES PACKAGED IN THERMOFORMED TRAYS
PER MOLEX PACKAGING SPECIFICATION PK-43249-004.
UNSHIELDED CONNECTOR ASSEMBLIES PACKAGED IN TUBES
PER MOLEX PACKAGING SPECIFICATION PK-43249-005.
SHIELDED CONNECTOR ASSEMBLIES PACKAGED IN THERMOFORMED TRAYS
PER MOLEX PACKAGING SPECIFICATION PK-44050-004.

5) MATES WITH: MODULAR PLUGS THAT CONFORM TO FCC REGULATION PART 68.5.

6) SEE SHEET 3 FOR SHIELDED JACK ASSEMBLY.

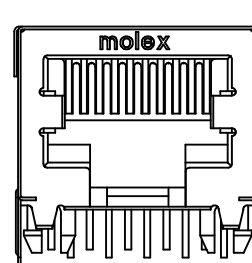
7) SEE SHEETS 5 & 6 FOR P.C. BOARD LAYOUTS.

8) ALL UNTOLERANCED DIMENSIONS ARE SHOWN FOR REFERENCE ONLY.

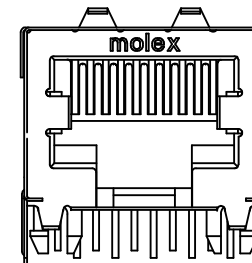
9) THIS PART CONFORMS TO CLASS B REQUIREMENTS OF COSMETIC SPECIFICATION PS-45499-002.

10) THIS PART CONFORMS TO FCC REGULATION 68.5 AND TIA 1096 FOR MODULAR JACKS.

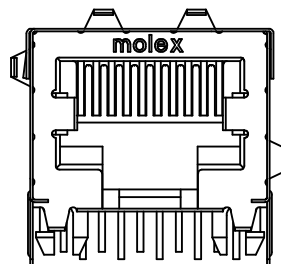
SIDE/TOP GROUND TAB OPTIONS FOR SHIELDS



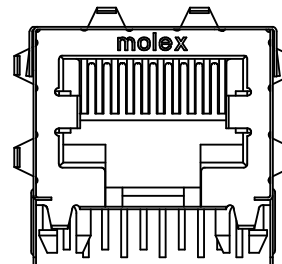
OPTION "A"
NO TOP OR SIDE TABS



OPTION "B"
TOP TABS

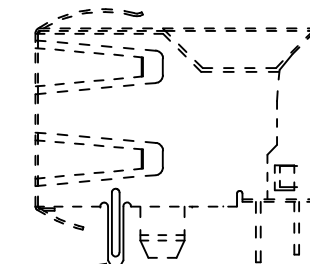


OPTION "C"
TOP AND STAGGERED SIDE TABS

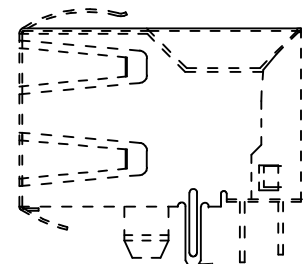


OPTION "D"
TOP AND SIDE TABS

BOTTOM PCB GROUND TAB OPTIONS FOR SHIELDS



OPTION "E"
OPTIONAL FRONT POSITION



OPTION "F"
OPTIONAL REAR POSITION

NOTE: EITHER PCB GROUND TAB OPTION IS AVAILABLE ON ALL SIDE/TOP TAB CONFIGURATIONS

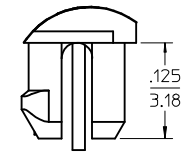
DRAWING LEGEND

- SHEET 1- NOTES, GROUND TAB OPTIONS
SHEET 2- UNSHIELDED MODULAR JACK
SHEET 3- SHIELDED MODULAR JACK WITH
OPTIONAL SIDE/TOP GROUND TABS & BOTTOM GROUND
TAB WITH OPTIONAL POSITION.
SHEET 4- PART NUMBER CHARTS
SHEET 5- FOOTPRINT LAYOUT FOR 8 POSITION HOUSING
SHEET 6- FOOTPRINT LAYOUT FOR 6 POSITION HOUSING

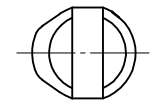
ADDED NOTE 10 EC NO: UCP2009-0740 DRWN: KLOSTERNER 2008/09/29 CHKD: JEBELL 2008/10/03 APPR: FSMITH 2008/10/03 K1	DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE IN/MM		SCALE 4:1	DESIGN UNITS INCH	 THIRD ANGLE PROJECTION	LOW PROFILE RIGHT ANGLE MODULAR JACK ASSEMBLY		
				mm	INCH	DRAWN BY	DATE	TITLE				
			4 PLACES	± ---	± ---	JTR	1993/06/23					
			3 PLACES	± ---	± .010	CHECKED BY	DATE					
			2 PLACES	± 0.25	± ---	JTR	1993/06/23					
			1 PLACE	± ---	± ---	APPROVED BY	DATE					
			ANGULAR ±1/2°			RAS	1993/06/23	molex MOLEX INCORPORATED				
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			MATERIAL NO.		DOCUMENT NO.			SHEET NO.	
						SEE SHEET 4		SDA-43249			1 OF 6	
						SIZE C THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

UNSHIELDED MODULAR JACK

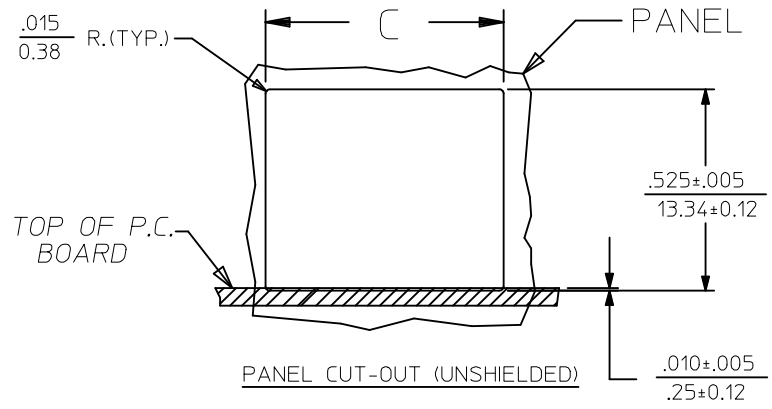
8 POSITION LOADED 10 SIZE SHOWN



OPTIONAL FLANGE
USED FOR FLUSH
MODULAR JACK



PEG DETAIL
SCALE 8:1



HOUSING SIZE	CIRCUIT SIZE	DIM. A	DIM. B	DIM. C
8	10	.600±.005 (15.24±0.13)	.450±.005 (11.43±0.13)	.620±.005 (15.75±0.13)
8	8	.600±.005 (15.24±0.13)	.350±.005 (8.89±0.13)	.620±.005 (15.75±0.13)
8	4	.600±.005 (15.24±0.13)	.150±.005 (3.81±0.13)	.620±.005 (15.75±0.13)
8	6	.600±.005 (15.24±0.13)	.250±.005 (6.35±0.13)	.620±.005 (15.75±0.13)
6	6	.520±.005 (13.21±0.13)	.250±.005 (6.35±0.13)	.540±.005 (13.72±0.13)
6	4	.520±.005 (13.21±0.13)	.150±.005 (3.81±0.13)	.540±.005 (13.72±0.13)
6	2	.520±.005 (13.21±0.13)	.050±.005 (1.27±0.13)	.540±.005 (13.72±0.13)

SEE SHEET 1
EC NO: UCP2009-0740
DRWN: JLOSTEME/ER 2008/09/29
CHKD: JBEL 2008/10/03
APPR: FSMITH 2008/10/03

REV

QUALITY SYMBOLS
▽=0
▽=0

DESCRIPTION

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES ±	---	---
3 PLACES ±	---	±.010
2 PLACES ±	0.25	---
1 PLACE ±	---	---

ANGULAR ±1/2°

DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

DIMENSION STYLE
IN/MM

DRAWN BY
JTR

CHECKED BY
JTR

APPROVED BY
RAS

MATERIAL NO.

SIZE
C

SCALE
4:1

DESIGN UNITS
INCH

THIRD ANGLE PROJECTION

TITLE
LOW PROFILE RIGHT ANGLE
MODULAR JACK ASSEMBLY

MOLEX INCORPORATED

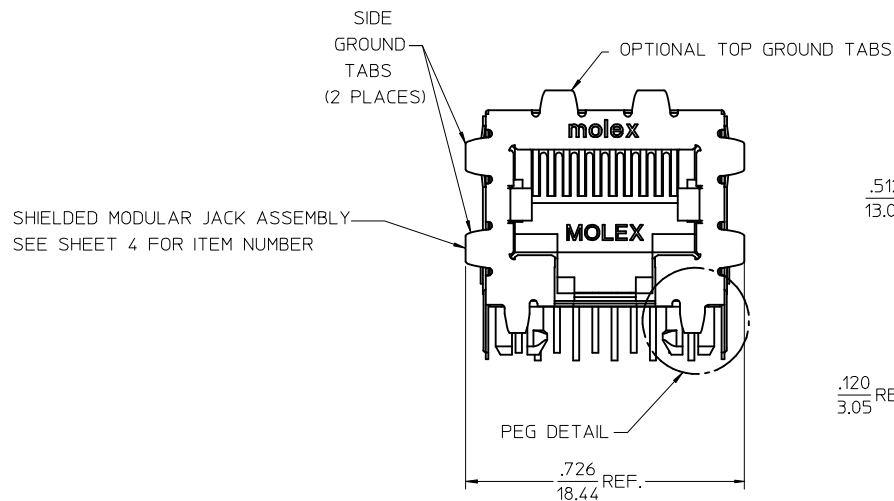
DOCUMENT NO.
SDA-43249

SHEET NO.
2 OF 6

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

MODULAR JACK W/ .007" THICK SHIELD AND OPTIONAL GROUND TABS

8 LOADED 10 VERSION SHOWN WITH GROUND TAB OPTIONS "D" AND "E"



PEG DETAIL
SCALE 8:1



DESCRIPTION OF GROUND TAB OPTIONS:
(SEE SHEET 4 FOR AVAILABLE COMBINATIONS OF OPTIONS)

GROUND TAB OPTION	DESCRIPTION
A	NO GROUND TABS
B	TOP TABS ONLY
C	STAGGERED SIDE TABS
D	TOP AND SIDE TABS
E	PCB GROUND TAB IN FRONT POSITION
F	PCB GROUND TAB IN REAR POSITION

HOUSING SIZE	CIRCUIT SIZE	B
8	10	.450 ± .005 11.43 ± 0.13
8	8	.350 ± .005 8.89 ± 0.13

SEE SHEET 1
EC NO: UCP2009-0740
DRWN: KLOSTERNER 2008/09/29
CHKD: JELL 2008/10/03
APPR: FSMITH 2008/10/03

QUALITY SYMBOLS
▽=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES ±	± .010	± .004
3 PLACES ±	± .010	± .004
2 PLACES ±	± .025	± .010
1 PLACE ±	± .050	± .020

ANGULAR ±1/2°

DRAFT WHERE APPLICABLE
MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE
IN/MM

DRAWN BY DATE
JTR 1993/06/23

CHECKED BY DATE
JTR 1993/06/23

APPROVED BY DATE
RAS 1993/06/23

MATERIAL NO.
SEE SHEET 4

SIZE
C

SCALE
4:1

DESIGN UNITS
INCH

THIRD ANGLE PROJECTION

TITLE
LOW PROFILE RIGHT ANGLE
MODULAR JACK ASSEMBLY

MOLEX INCORPORATED

DOCUMENT NO.
SDA-43249

SHEET NO.
3 OF 6

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

13	12	11	10	9	8	7	6	5	4	3	2	1
FLUSH MOUNT (UNSHIELDED)					SHIELDED, .007" THICK							
ASSEMBLY ITEM NUMBER	CONNECTOR SIZE	NUMBER OF CIRCUITS	TERMINAL PLATING OPTION		ASSEMBLY ITEM NUMBER	CONN. SIZE	NUMBER OF CIRCUITS	TERMINAL PLATING OPTION	SIDE/TOP PANEL GROUND TAB OPTION	PCB GROUND TAB OPTION		PACKAGING OPTION
43249-8001	8	10	A		43249-8900	8	10	A	A	E		TRAY
43249-8004	8	8	A		43249-8901	8	10	A	B	E		TRAY
43249-8010	8	6	A		43249-8902	8	10	A	C	E		TRAY
43249-6001	6	6	A		43249-8903	8	10	A	D	E		TRAY
43249-6004	6	4	A		43249-8908	8	10	A	A	F		TRAY
43249-6007	6	2	A		43249-8909	8	10	A	B	F		TRAY

FLANGELESS (UNSHIELDED)			
ASSEMBLY ITEM NUMBER	CONNECTOR SIZE	NUMBER OF CIRCUITS	TERMINAL PLATING OPTION
43249-8101	8	10	A
43249-8102	8	10	B
43249-8104	8	8	A
43249-8105	8	8	B
43249-8116	8	6	A
43249-8119	8	4	A
43249-6101	6	6	A
43249-6104	6	4	A
43249-6107	6	2	A

FLANGELESS (UNSHIELDED)			
(SHIPPED IN TUBES)			
43249-6501	6	6	A
43249-6504	6	4	A

SHIELDED, .007" THICK						
ASSEMBLY ITEM NUMBER	CONN. SIZE	NUMBER OF CIRCUITS	TERMINAL PLATING OPTION	SIDE/TOP PANEL GROUND TAB OPTION	PCB GROUND TAB OPTION	PACKAGING OPTION
43249-8900	8	10	A	A	E	TRAY
43249-8901	8	10	A	B	E	TRAY
43249-8902	8	10	A	C	E	TRAY
43249-8903	8	10	A	D	E	TRAY
43249-8908	8	10	A	A	F	TRAY
43249-8909	8	10	A	B	F	TRAY
43249-8910	8	10	A	C	F	TRAY
43249-8911	8	10	A	D	F	TRAY
43249-8916	8	8	A	A	E	TRAY
43249-8917	8	8	A	B	E	TRAY
43249-8918	8	8	A	C	E	TRAY
43249-8919	8	8	A	D	E	TRAY
43249-8920	8	8	B	A	E	TRAY
43249-8924	8	8	A	A	F	TRAY
43249-8925	8	8	A	B	F	TRAY
43249-8926	8	8	A	C	F	TRAY
43249-8927	8	8	A	D	F	TRAY

SEE SHEET 1 EC NO: UCP2009-0740 DRAWN: JLOSTEME EC008/09/29 CHKD: JBELLO 2008/10/03 APPR: FSWITH 2008/10/03	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE IN/MM		SCALE 4:1	DESIGN UNITS INCH	THIRD ANGLE PROJECTION		
	REV	▽=0		mm	INCH	DRAWN BY	DATE	TITLE LOW PROFILE RIGHT ANGLE MODULAR JACK ASSEMBLY			
		▽=0	4 PLACES	±---	±---	JTR	1993/06/23				
			3 PLACES	±---	±.010	CHECKED BY	DATE				
			2 PLACES	±0.25	±---	JTR	1993/06/23				
		1 PLACE	±---	±---	APPROVED BY	DATE					
			ANGULAR ±1/2°		RAS	1993/06/23	MOLEX MOLEX INCORPORATED				
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO. SEE CHART		DOCUMENT NO. SDA-43249		SHEET NO. 4 OF 6		
					SIZE C	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					



PC BOARD LAYOUT FOR SIZE 8, 10 CIRCUIT
(COMPONENT SIDE OF BOARD)



PC BOARD LAYOUT FOR SIZE 8, 8 CIRCUIT
(COMPONENT SIDE OF BOARD)



PC BOARD LAYOUT FOR SIZE 8, 6 CIRCUIT
(COMPONENT SIDE OF BOARD)

NOTES:
1. RECOMMENDED PCB THICKNESS: .062 ± .005 (1.57 ± 0.13)

SEE SHEET 1 EC NO: UCP2009-0740 DRWN: KLOSTEMEIER 2008/09/29 CHKD: JBEL 2008/10/03 APPR: FSMITH 2008/10/03	DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE IN/MM		SCALE 4:1	DESIGN UNITS INCH	THIRD ANGLE PROJECTION				
						DRAWN BY JTR	DATE 1993/06/23	TITLE LOW PROFILE RIGHT ANGLE MODULAR JACK ASSEMBLY						
						CHECKED BY JTR	DATE 1993/06/23							
						APPROVED BY RAS	DATE 1993/06/23	MOLEX MOLEX INCORPORATED						
						MATERIAL NO.		DOCUMENT NO.						
						SEE SHEET 4		SDA-43249						
								SHEET NO. 5 OF 6						

K1	REV	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	SIZE	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION														

13 12 11 10 9 8 7 6 5 4 3 2 1



PC BOARD LAYOUT FOR SIZE 6, 6 CIRCUIT
(COMPONENT SIDE OF BOARD)



PC BOARD LAYOUT FOR SIZE 6, 4 CIRCUIT
(COMPONENT SIDE OF BOARD)



PC BOARD LAYOUT FOR SIZE 6, 2 CIRCUIT
(COMPONENT SIDE OF BOARD)

NOTES:
1. RECOMMENDED PCB THICKNESS: .062±.005/(1.57±0.13)

SEE SHEET 1 EC NO: UCP2009-0740 DRWN: KLOSTEWIEC 2008/09/29 CHKD: J.BELL 2008/10/03 APPR: FSMITH 2008/10/03	DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE IN/MM		SCALE 4:1	DESIGN UNITS INCH	 THIRD ANGLE PROJECTION
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	mm	INCH	DRAWN BY	DATE	TITLE LOW PROFILE RIGHT ANGLE MODULAR JACK ASSEMBLY	
				4 PLACES ± ---	± ---	JTR	1993/06/23		
				3 PLACES ± ---	± .010	CHECKED BY	DATE		
				2 PLACES ± 0.25	± ---	JTR	1993/06/23		
				1 PLACE ± ---	± ---	APPROVED BY	DATE		
ANGULAR ±1/2°		RAS	1993/06/23	 MOLEX INCORPORATED					
		MATERIAL NO.	DOCUMENT NO.		SHEET NO.				
K1	REV		SEE SHEET 4		SDA-43249		6 OF 6		
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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

Телефон: 8 (812) 309 58 32 (многоканальный)

Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.