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LOC	DIST
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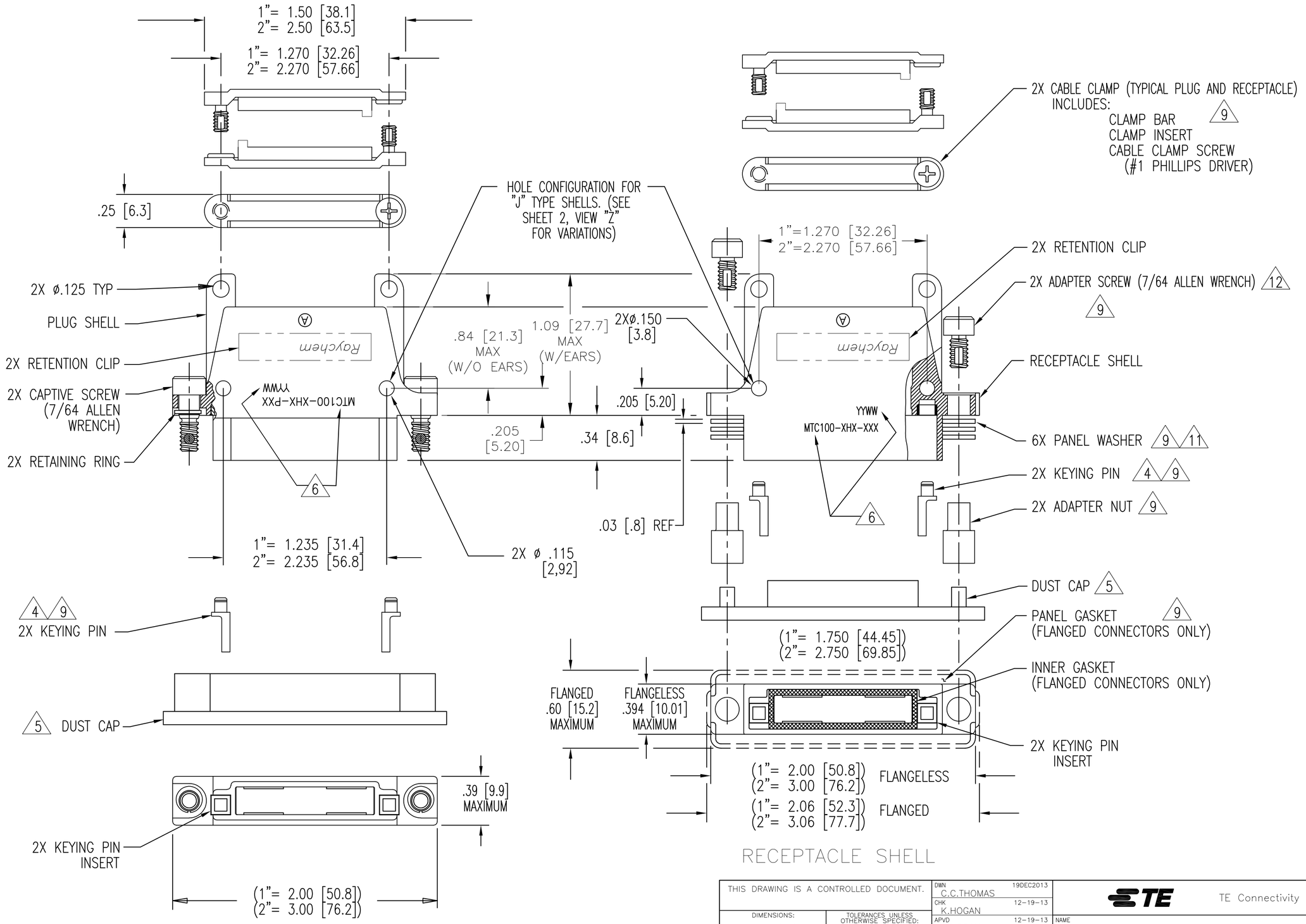
REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD
	W	REV PER ECO 13-019993	12-19-13	CT	KH



THIS DRAWING IS A CONTROLLED DOCUMENT.	DWN C.C.THOMAS 19DEC2013	TE Connectivity	
DIMENSIONS: INCHES [mm]	CHK K.HOGAN 12-19-13	NAME SHELL, PLUG AND RECEPTACLE MTC100 SERIES	
TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ± – ; 1 PLC ± – ; 2 PLC ± .02 [0.5] ; 3 PLC ± .005 [0.13] ; 4 PLC ± – ; ANGLES ± –	APVD K.HOGAN 12-19-13		
	PRODUCT SPEC —		
	APPLICATION SPEC —	SIZE A2 / CAGE CODE 00779 / DRAWING NO C-MTC100-XHX-XXX-XXX / RESTRICTED TO —	
MATERIAL –	WEIGHT —		
FINISH –	CUSTOMER DRAWING	SCALE NTS / SHEET 1 OF 3 / REV W	

MTC100-XHX-XXX-XXX

1471-9 (3/11)

8:01am

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REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD
	–	SEE SHEET #1	–	—	—

1. PART NUMBER VARIABLES: (NOT ALL POSSIBLE CONFIGURATIONS SHOWN ON THIS DRAWING ARE AVAILABLE AS STANDARD PRODUCTS. PLEASE CHECK WITH RAYCHEM TO CONFIRM AVAILABILITY.)

MTC100–XHX–XXX–XXX

- MODIFICATIONS (see table I) (THIS SPACE BLANK IF NO MODIFICATION IS APPLICABLE)
  - 1= W/O CABLE CLAMP AND W/O EARS ON SHELL
  - 2= WITH CABLE CLAMP AND EARS ON SHELL
  - 3= W/O CABLE CLAMP AND WITH EARS
  - 4= WITH FLAT CABLE CLAMP (SEE VIEW V) AND EARS ON SHELL
- 1= BLACK ANODIZED (WHITE MARKING)
  2= ELECTROLESS NICKEL (BLACK MARKING)
  3= CADMIUM OVER NICKEL UNDERPLATE (BLACK MARKING)
- P= PLUG
  R= FLANGELESS RECEPTACLE
  F= FLANGED RECEPTACLE: STANDARD ("J" TYPE) HAS NON CONDUCTIVE FLUOROSILICONE GASKET SHIELDED ("S" TYPE) HAS CONDUCTIVE FLUOROSILICONE GASKET
- 1= 1 INCH
  2= 2 INCH
- J= STANDARD TYPE
  S= SHIELDED
  Y= SPECIAL TYPE: REFER TO INDIVIDUAL SPECIFICATION CONTROL DRAWINGS FOR DESCRIPTIONS

2. MATERIAL:

A) SHELL	ALUMINUM ALLOY PER ASTM B85
B) RETENTION CLIP	COPPER ALLOY 172 PER ASTM B194
C) ADAPTER SCREW OR CAP SCREW	STAINLESS STEEL PER SAE–AMS–QQ–S–763, 300 SERIES
D) ADAPTER NUT OR RETAINER BUSHING	STAINLESS STEEL PER SAE–AMS–QQ–S–763, 300 SERIES
E) PANEL OR LOCK WASHER	STAINLESS STEEL PER SAE–AMS–QQ–S–763 OR ASTM B240, 300 SERIES
F) KEYING PIN	HIGH GRADE POLYARYLENE THERMOPLASTIC, MOLDED
G) KEY PINS INSERT	HIGH GRADE POLYARYLENE THERMOPLASTIC, MOLDED
H) CLAMP BAR	STAINLESS STEEL PER SAE–AMS–QQ–S–763, 300 SERIES
J) CLAMP INSERT	SILICONE ELASTOMER PER MIL–R–25988
K) CAPTIVE SCREW	STAINLESS STEEL PER SAE–AMS–QQ–S–763, 300 SERIES
L) RETAINING RING	COPPER ALLOY 172 PER ASTM B194

3. FINISH:

	APPLIES TO NICKEL PLATED CONNECTORS	APPLIES TO CADMIUM PLATED CONNECTORS	APPLIES TO BLACK ANODIZED CONNECTORS
A) SHELL	NICKEL PLATED PER SAE–AMS–C–26074 CLASS 3, GRADE B	CADMIUM PLATED PER SAE–AMS–QQ–P–416 OVER NICKEL UNDERPLATE	BLACK ANODIZED PER MIL–A–8625, TYPE II, CLASS 2
B) RETENTION CLIP	NICKEL PLATED PER SAE–AMS–C–26074 CLASS 2, .00002 MINIMUM	CADMIUM PLATED PER SAE–AMS–QQ–P–416	NICKEL PLATED PER SAE–AMS–C–26074 CLASS 2, .00002 MINIMUM
C) ADAPTER OR CAP SCREW	PASSIVATED PER SAE–AMS–2700	CADMIUM PLATED PER SAE–AMS–QQ–P–416	PASSIVATED PER SAE–AMS–2700
D) ADAPTER NUT OR RETAINER BUSHING	PASSIVATED PER SAE–AMS–2700	CADMIUM PLATED PER SAE–AMS–QQ–P–416	PASSIVATED PER SAE–AMS–2700
E) PANEL OR LOCK WASHER	PASSIVATED PER SAE–AMS–2700	CADMIUM PLATED PER SAE–AMS–QQ–P–416	PASSIVATED PER SAE–AMS–2700
F) CLAMP BAR	PASSIVATED PER SAE–AMS–2700	CADMIUM PLATED PER SAE–AMS–QQ–P–416	PASSIVATED PER SAE–AMS–2700
G) CAPTIVE SCREW	PASSIVATED PER SAE–AMS–2700	CADMIUM PLATED PER SAE–AMS–QQ–P–416	PASSIVATED PER SAE–AMS–2700
H) RETAINING RING	NICKEL PLATED PER SAE–AMS–C–26074	CADMIUM PLATED PER SAE–AMS–QQ–P–416	NICKEL PLATED PER SAE–AMS–C–26074

△4. FOR MOUNTING / MATING AND KEYING INFORMATION, SEE RAYCHEM DRAWING D652–0012.

△5. DUST CAP SUPPLIED WITH EACH PLUG OR RECEPTACLE. NO DUST CAPS ARE SUPPLIED WHEN SHELLS ARE SHIPPED TO CUSTOMER SPECIFICATION NUMBER 991006.

△6. APPROPRIATE PART NUMBER AND DATE CODE ARE STAMPED APPROXIMATELY AS SHOWN.

7. THESE PARTS MEET THE REQUIREMENTS OF RAYCHEM SPECIFICATION C–6111.

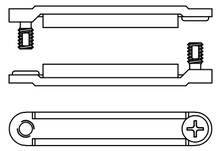
8. FLANGED RECEPTACLE CONNECTORS PROPERLY MATED AND TORQUED TO 9 INCH POUNDS WILL EXHIBIT AN AIR LEAK RATE NOT EXCEEDING .5 CC / SECOND AT 30 PSI AND 25° C. (APPLICABLE ONLY TO FLANGED RECEPTACLES WITH PIN INSERTS)

△9. THESE ITEMS ARE SUPPLIED UNASSEMBLED.

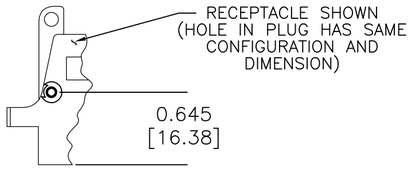
△10. SEE TABLE II & TABLE 4 SHEET 3, WEIGHTS ARE WITHOUT DUST CAP.

△11. THIS RECEPTACLE IS REAR PANEL MOUNTED BY REMOVING AS MANY PANEL WASHERS AS REQUIRED TO ACCOMMODATE THE THICKNESS OF THE PANEL BEING USED. (SEE TABLE III)

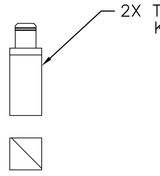
△12. RECEPTACLE ADAPTER SCREWS (CAP SCREWS) ARE TO BE TORQUED TO 15±1 INCH–LBS (1.0±0.07 N–M)



FLAT CABLE CLAMP
VIEW "V"

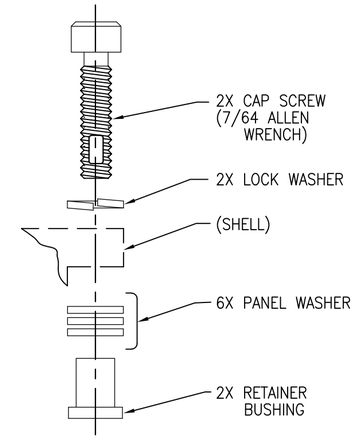


HOLE CONFIGURATION FOR
ALL "S" TYPE SHELLS AND
FLANGED "J" TYPE RECEPTACLE SHELLS
VIEW "Z"



APPLIES TO –014 MODIFICATION
(see table I)
VIEW "W"

TABLE III △11	
PANEL THICKNESS	NUMBER OF PANEL WASHERS FOR EACH FASTENER
0.031/0.036 [0.8]/[0.9]	2
0.062/0.067 [1.5]/[1.7]	1
0.093/0.097 [2.3]/[2.4]	0



MTC50 HARDWARE
APPLIES TO –020 MODIFICATION
(see table I)
VIEW "Y"

TABLE I (MODIFICATIONS)	
MODIFICATION DASH NUMBER	DESCRIPTION
–001	SAME AS STANDARD ASSEMBLY WITH EARS EXCEPT WITHOUT CABLE CLAMPS
–007	SAME AS STANDARD ASSEMBLY EXCEPT METAL PARTS ARE PLATED CADMIUM OVER NICKEL, SUPPLIED WITH MTC50 MOUNTING/ MATING HARDWARE (SEE VIEW "Y")
–014	SAME AS STANDARD EXCEPT ADDITIONALLY TRIANGULAR KEYING PINS INCLUDED (SEE VIEW "W")
–020	SAME AS STANDARD EXCEPT SUPPLIED WITH MTC50 MOUNTING/MATING HARDWARE (SEE VIEW "Y")
–028	SAME AS STANDARD ASSEMBLY EXCEPT SUPPLIED WITHOUT HARDWARE

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0 PLC ± –
1 PLC ± –
2 PLC ± .02 [0.5]
3 PLC ± .005 [0.13]
4 PLC ± –
ANGLES ± –

MATERIAL –
FINISH –

DWN C.C.THOMAS 19DEC2013
CHK K.HOGAN 12–19–13
APVD K.HOGAN 12–19–13
PRODUCT SPEC —
APPLICATION SPEC —
WEIGHT —

TE Connectivity

NAME
SHELL, PLUG AND RECEPTACLE
MTC100 SERIES

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A2	00779	MTC100–XHX–XXX–XXX	—

CUSTOMER DRAWING | SCALE NTS | SHEET 2 OF 3 | REV W

MTC100–XHX–XXX–XXX

1471–9 (3/11)

1:49pm

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REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD
	–	SEE SHEET #1	–	—	—

THE FOLLOWING TABLE CONSISTS OF WEIGHTS FOR THESE SPECIFIC PART NUMBERS.

TABLE II (10)

PART NUMBER	WEIGHT MAXIMUM GRAMS
MTC100-JH1-F32	30.8
MTC100-JH1-P32	23.8
MTC100-JH1-R32	27.3
MTC100-JH2-F32	43.7
MTC100-JH2-P32	34.2
MTC100-JH2-R32	38.3
MTC100-SH1-F33	24.2 *
MTC100-SH1-P33	16.1 *
MTC100-SH1-R33	20.3 *
MTC100-SH2-F33	32.3 *
MTC100-SH2-P33	22.7 *
MTC100-SH2-R33	27.0 *

TABLE 4 (10)

PART NUMBER	WEIGHT MAXIMUM GRAMS
MTC100-JH1-F22	30.8
MTC100-JH1-P22	23.8
MTC100-JH1-R22	27.3
MTC100-JH2-F22	43.7
MTC100-JH2-P22	34.2
MTC100-JH2-R22	38.3
MTC100-SH1-F23	24.2 *
MTC100-SH1-P23	16.1 *
MTC100-SH1-R23	20.3 *
MTC100-SH2-F23	32.3 *
MTC100-SH2-P23	22.7 *
MTC100-SH2-R23	27.0 *

* = WEIGHT DOES NOT INCLUDE CABLE CLAMP

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DIMENSIONS: INCHES [mm]

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ± –
1 PLC ± –
2 PLC ± .02 [0.5]
3 PLC ± .005 [0.13]
4 PLC ± –
ANGLES ± –

MATERIAL –
FINISH –

DWN C.C.THOMAS 19DEC2013
CHK K.HOGAN 12-19-13
APVD K.HOGAN 12-19-13
PRODUCT SPEC —
APPLICATION SPEC —
WEIGHT —

TE Connectivity

NAME SHELL, PLUG AND RECEPTACLE MTC100 SERIES

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A2	00779	MTC100-XHX-XXX-XXX	—

CUSTOMER DRAWING | SCALE NTS | SHEET 3 OF 3 | REV W

MTC100-XHX-XXX-XXX

1471-9 (3/11)
1:49pm

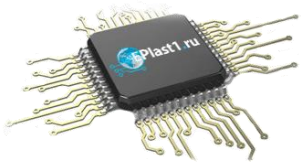
Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

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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