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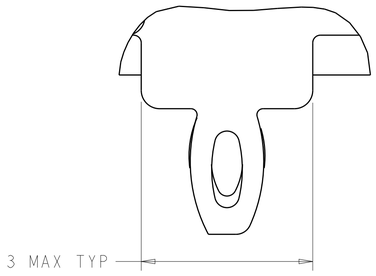
LOC	DIST
GP	00

REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD
	D	REVISED PER ECO-10-018054	04NOV2010	CJV	EJB
	E	REVISED PER ECO-12-005533	05APR2012	JY	AC
	F	REVISED PER ECO-14-016878	03DEC2014	RG	MC



DETAIL S (13)
SCALE 20:1

(1) MATERIALS:
CAGE ASSEMBLY: NICKEL SILVER, 0.25 THICK
HEAT SINK: ALUMINUM
HEAT SINK CLIP: STAINLESS STEEL
EMI SPRING: COPPER ALLOY
FRONT FLANGE: ZINC ALLOY
LIGHT PIPE: CLEAR POLYCARBONATE

(2) PITCH BETWEEN PORTS OF ONE 1X3 CAGE ASSEMBLY.

(3) SPACING BETWEEN CAGES ON THE SAME PC BOARD, TO BE SPECIFIED BY CUSTOMER, MUST COMPLY WITH MINIMUM DIMENSIONS SHOWN.

(4) REFERENCE APPLICATION SPEC 114-13218 FOR RECOMMENDED DRILL HOLE DIAMETER AND PLATING THICKNESS.

(5) DATUMS AND BASIC DIMENSIONS ESTABLISHED BY CUSTOMER.

(6) DIMENSION C IS THE NOMINAL THICKNESS OF CUSTOMER SUPPLIED PC BOARD,
SINGLE SIDED PC BOARD MIN THICKNESS = 1.45mm
DOUBLE SIDED PC BOARD MIN THICKNESS = 2.2mm.

(7) HEAT SINKS, LIGHT PIPES, AND CLIP SHIPPED ASSEMBLED TO CAGE ASSEMBLY. CAGE ASSEMBLY MAY BE PRESSED INTO THE PCB AS SHIPPED.

(8) DATUM -A- IS TOP SURFACE OF PC BOARD.

(9) DIMENSION APPLIES WITH MODULE INSERTED IN CAGE.

(10) UNPLATED THRU HOLE.

(11) MAXIMUM HEIGHT OF LED OFF BOARD: 0.9mm.

12. MATES WITH QSFP MSA COMPATIBLE TRANSCEIVER.

(13) SURFACE TRACES PERMITTED WITHIN THIS AREA EXCEPT WHERE CAGE STANDOFFS, SHOWN IN DETAIL S, CONTACT PC BOARD.

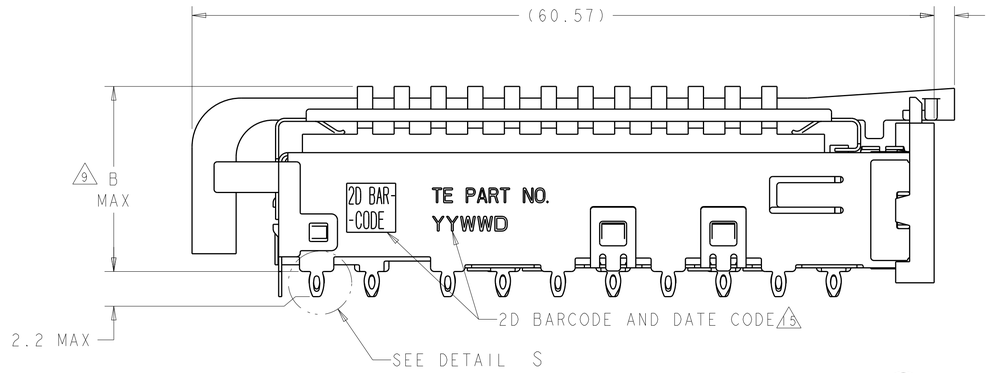
(14) BASELINE FOR THESE DIMENSIONS IS THE CENTER OF COMPLIANT PIN HOLE.

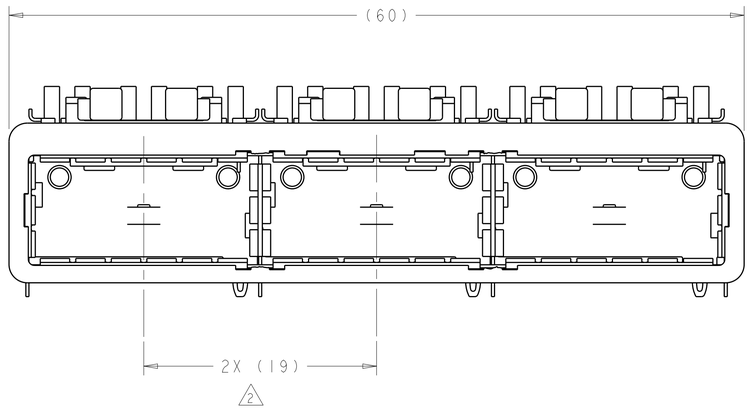
(15) 2D BARCODE AND DATE CODE (YYWWD) MARKED ON SIDE OF CAGE.

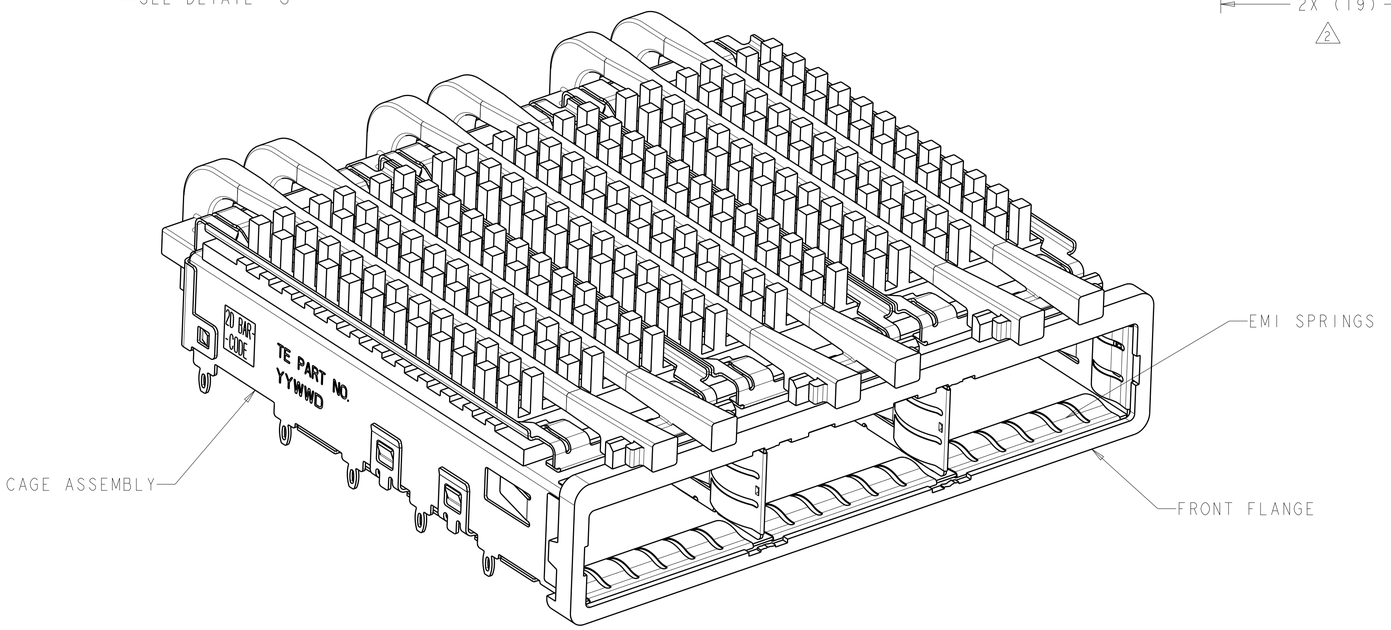
(16) REFERENCE APP SPEC 114-13218 FOR GASKET THICKNESS CALCULATION.

(17) FINISH:
EMI SPRING: 2µm MINIMUM TIN
FRONT FLANGE: 3µm MINIMUM TIN OVER 1.27µm MINIMUM NICKEL OVER 5.08µm MINIMUM COPPER
HEATSINK: NICKEL

(18) HEAT SINKS AND CLIPS SHIPPED ASSEMBLED TO CAGE ASSEMBLY. CAGE ASSEMBLY MAY BE PRESSED INTO THE PCB AS SHIPPED. LIGHT PIPES, SHIPPED UNATTACHED, MUST BE ASSEMBLED BY CUSTOMER AFTER THE CAGE IS SEATED IN THE PCB.







(7) (17) (18)	23.0	NETWORKING	2110412-3
	16.0	SAN	2110412-2
	13.7	PCI	2110412-1
	B	HEAT SINK PROFILE	PART NUMBER

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS: mm

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ±-
1 PLC ±0.1
2 PLC ±0.1
3 PLC ±-
4 PLC ±-
ANGLES ±-

MATERIAL (1)

FINISH (17)

DWN C. VALENTINE 28FEB2008
CHK J. PETERSON 28FEB2008
APVD J. PETERSON 28FEB2008

PRODUCT SPEC 108-2286
APPLICATION SPEC 114-13218
WEIGHT -

TE Connectivity

NAME 1X3 CAGE ASSEMBLY, BEHIND BEZEL, W/ SQUARE LIGHT PIPES AND HEAT SINKS QSFP

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A1	00779	C-2110412	-

CUSTOMER DRAWING | SCALE 4:1 | SHEET 1 OF 5 | REV F

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LOC	DIST
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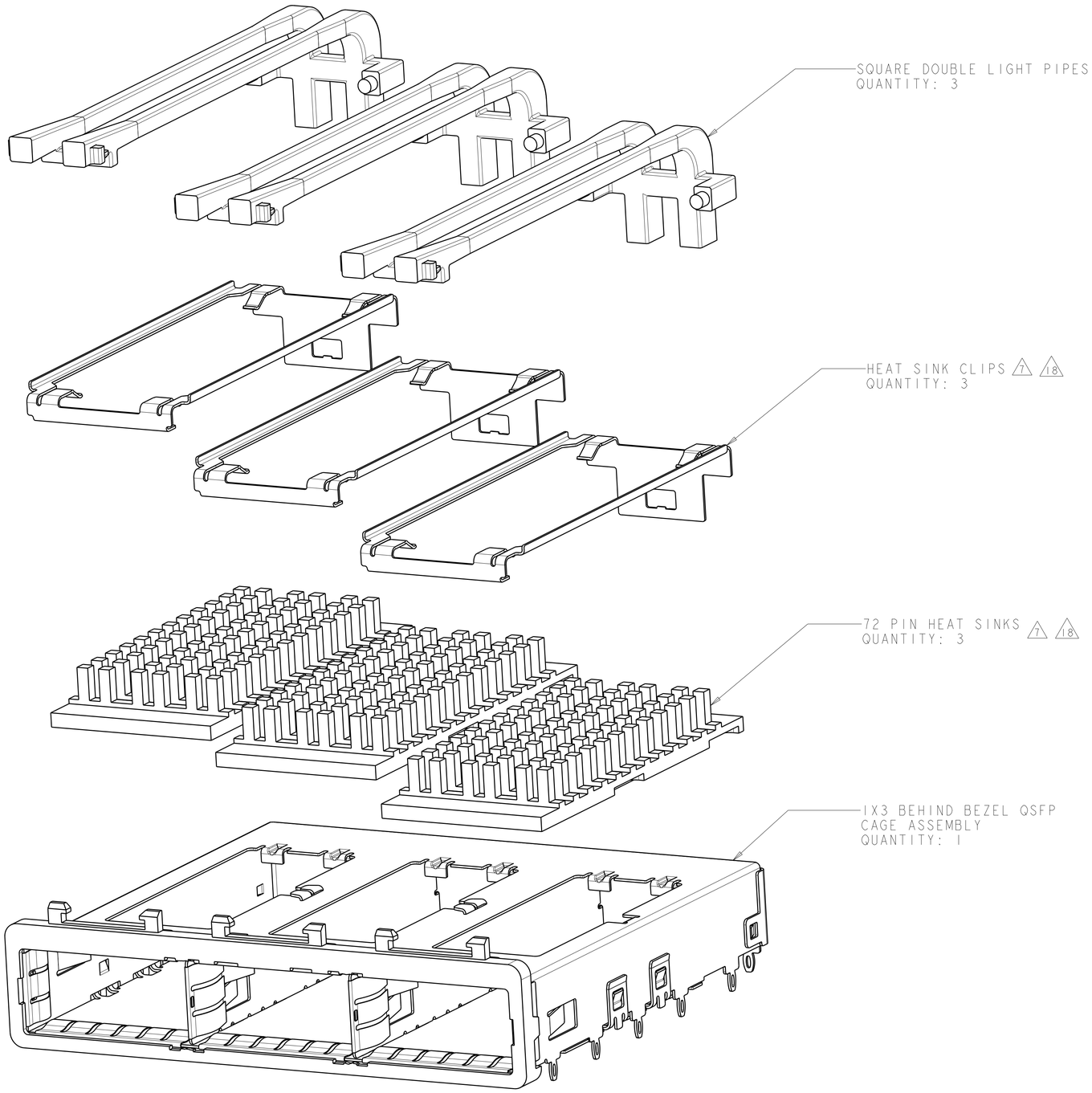
REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD
	-	SEE SHEET 1	-	-	-



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DIMENSIONS: mm

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ±-
1 PLC ±0.1
2 PLC ±0.1
3 PLC ±-
4 PLC ±-
ANGLES ±-

MATERIAL -
FINISH -

DWN C. VALENTINE 28FEB2008
CHK J. PETERSON 28FEB2008
APVD J. PETERSON 28FEB2008
PRODUCT SPEC 108-2286
APPLICATION SPEC 114-13218
WEIGHT -

TE Connectivity

NAME 1X3 CAGE ASSEMBLY, BEHIND BEZEL, W/ SQUARE LIGHT PIPES AND HEAT SINKS QSFP

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
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CUSTOMER DRAWING | SCALE 4:1 | SHEET 2 OF 5 | REV F

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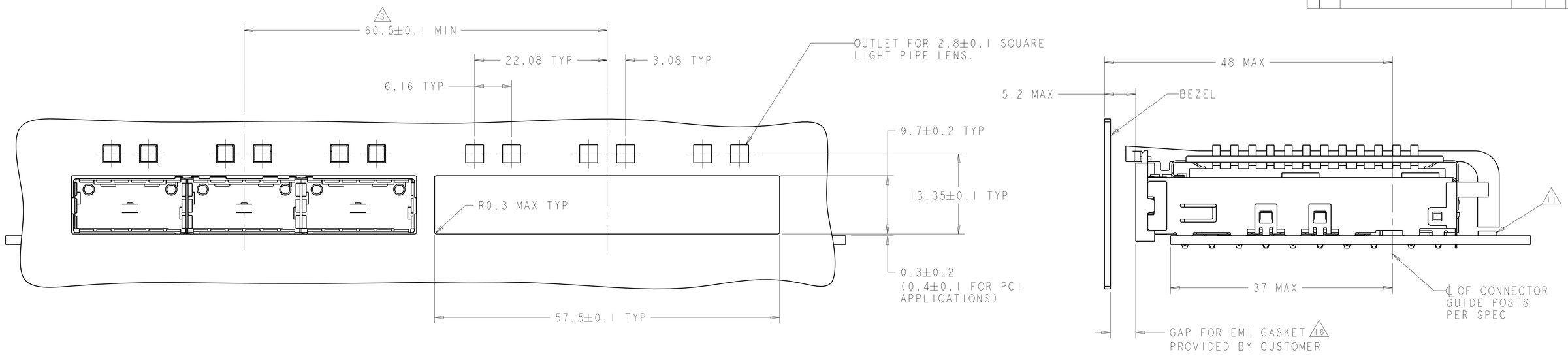
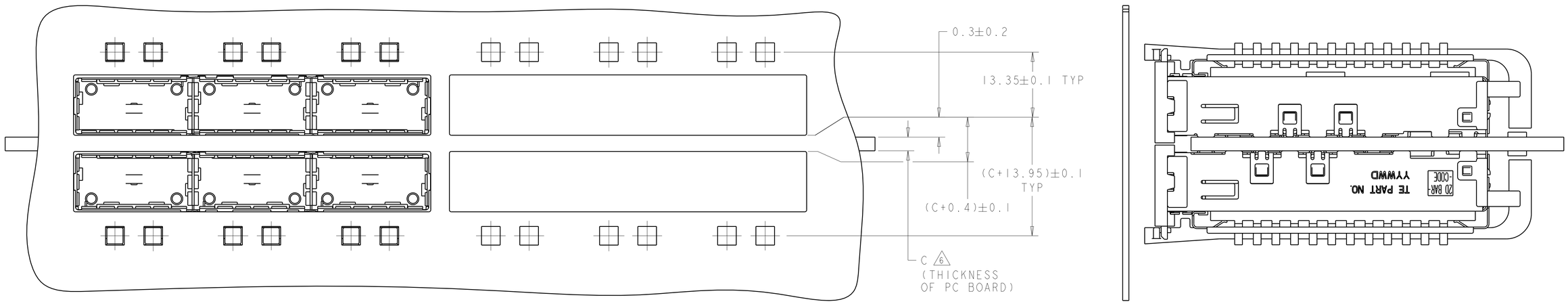
LOC	DIST
GP	00

REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD
	-	SEE SHEET 1	-	-	-



ONE SIDED CONFIGURATION
SCALE 3:1



BELLY TO BELLY CONFIGURATION
SIMILAR TO ONE SIDED
EXCEPT WHERE NOTED
SCALE 3:1

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS: mm

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ±-
1 PLC ±0.1
2 PLC ±0.1
3 PLC ±-
4 PLC ±-
ANGLES ±-

MATERIAL - -
FINISH - -

DWN C. VALENTINE 28FEB2008
CHK J. PETERSON 28FEB2008
APVD J. PETERSON 28FEB2008

PRODUCT SPEC 108-2286
APPLICATION SPEC 114-13218
WEIGHT -

TE Connectivity

NAME 1X3 CAGE ASSEMBLY, BEHIND BEZEL, W/ SQUARE LIGHT PIPES AND HEAT SINKS QSFP

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A1	00779	C-2110412	-

CUSTOMER DRAWING | SCALE 4:1 | SHEET 3 OF 5 | REV F

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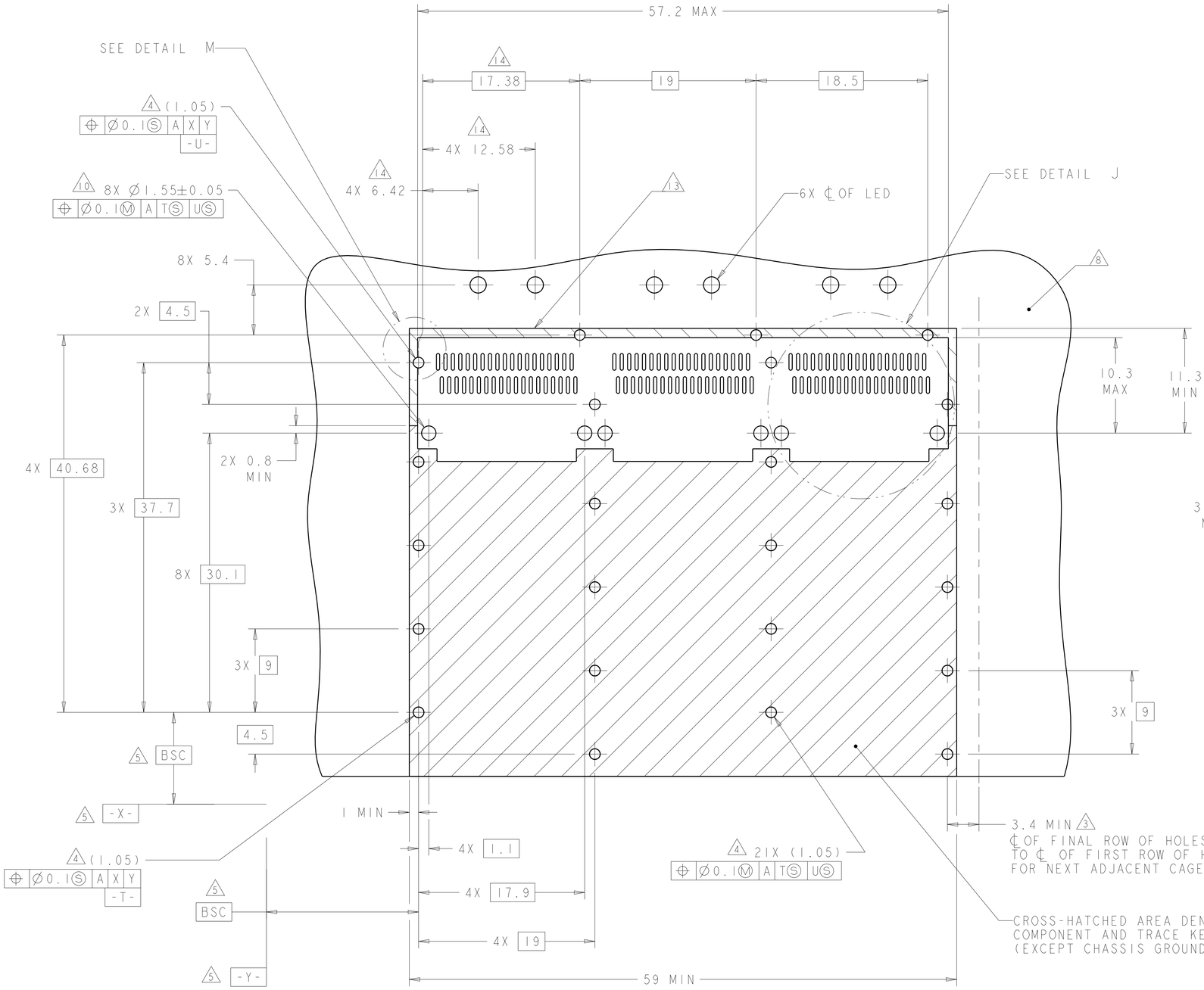
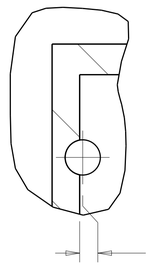
LOC	DIST
GP	00

REVISIONS

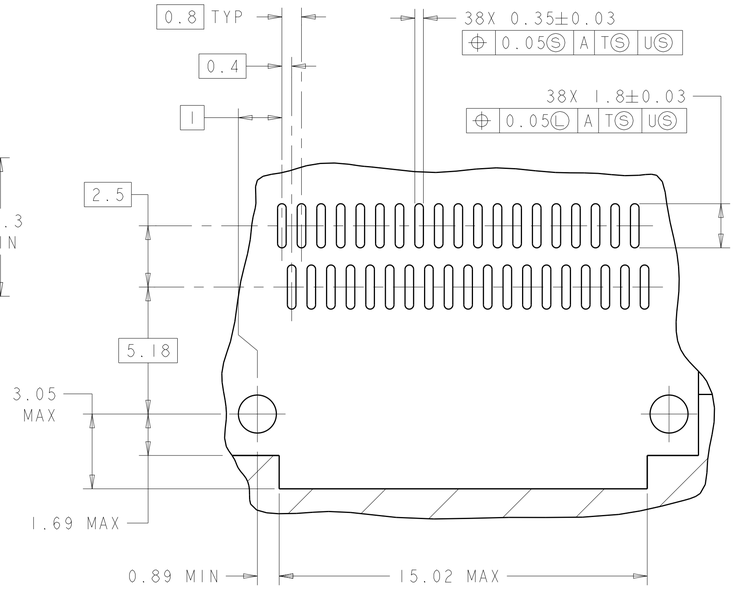
P	LTR	DESCRIPTION	DATE	DWN	APVD
	-	SEE SHEET 1	-	-	-



RECOMMENDED PC BOARD LAYOUT
SINGLE SIDE MOUNT CONFIGURATION
SCALE 4:1



DETAIL M
SCALE 10:1



DETAIL J
3 PLACES
SCALE 8:1

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS: mm

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ±-
1 PLC ±0.1
2 PLC ±0.1
3 PLC ±-
4 PLC ±-
ANGLES ±-

MATERIAL - -
FINISH - -

DWN C. VALENTINE 28FEB2008
CHK J. PETERSON 28FEB2008
APVD J. PETERSON 28FEB2008

TE Connectivity

NAME 1X3 CAGE ASSEMBLY, BEHIND BEZEL, W/ SQUARE LIGHT PIPES AND HEAT SINKS QSFP

PRODUCT SPEC 108-2286
APPLICATION SPEC 114-13218
WEIGHT -

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A1	00779	C-2110412	-

CUSTOMER DRAWING

SCALE 4:1 SHEET 4 OF 5 REV F

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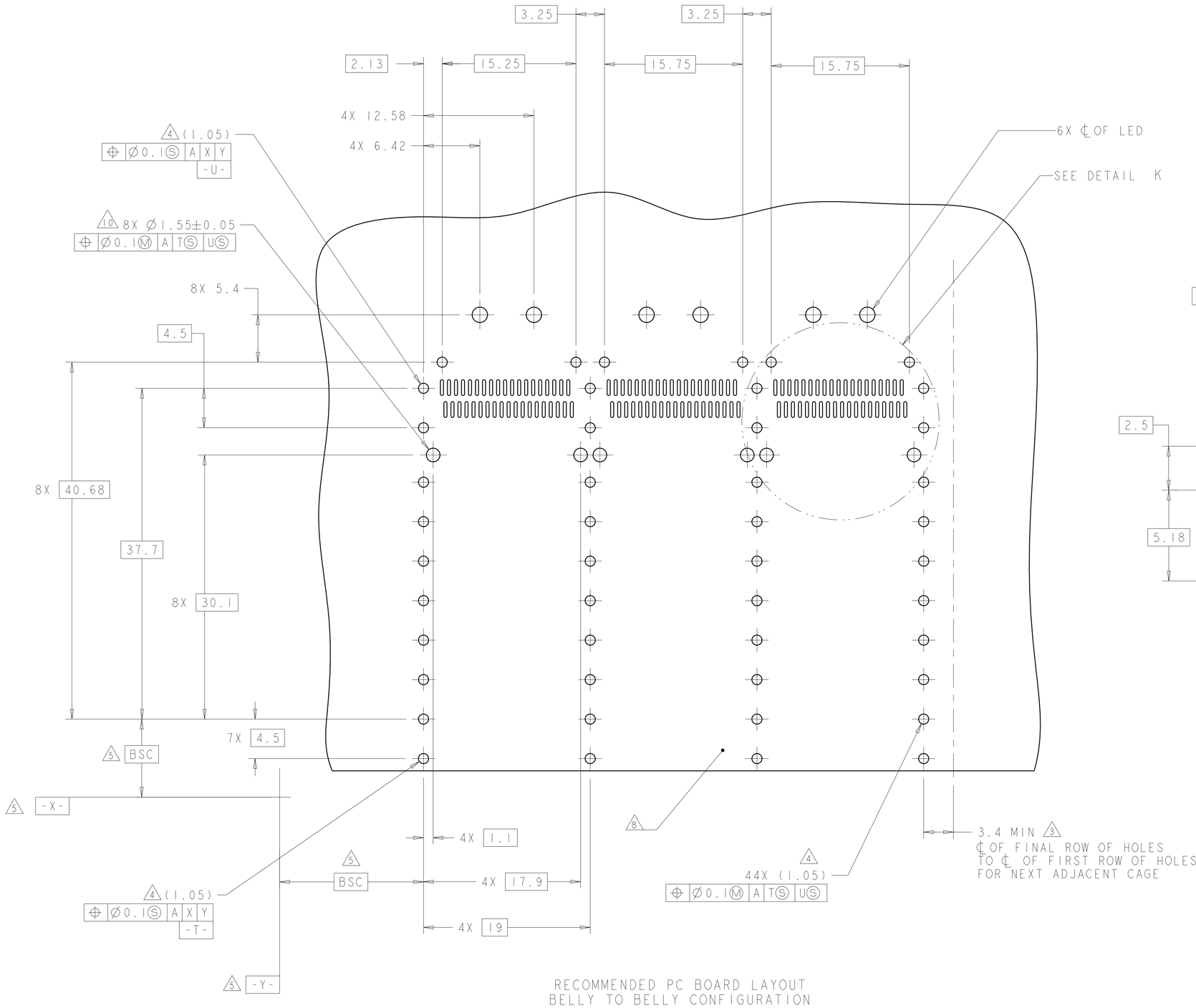
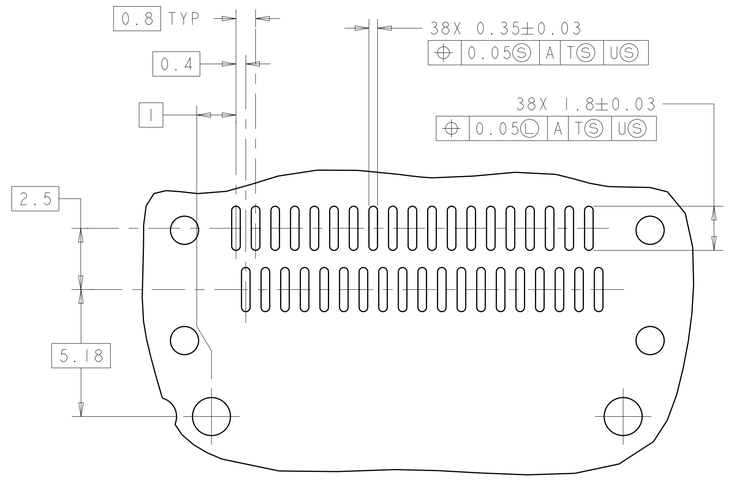
REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD
	-	SEE SHEET 1	-	-	-



RECOMMENDED PC BOARD LAYOUT
BELLY TO BELLY CONFIGURATION
SEE SHEET 4 FOR COMPONENT AND TRACE KEEP-OUTS
SCALE 4:1



DETAIL K
SCALE 8:1

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN C. VALENTINE 28FEB2008	TE Connectivity
DIMENSIONS: mm	TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ±- 1 PLC ±0.1 2 PLC ±0.1 3 PLC ±- 4 PLC ±- ANGLES ±-	CHK J. PETERSON 28FEB2008	NAME 1X3 CAGE ASSEMBLY, BEHIND BEZEL, W/ SQUARE LIGHT PIPES AND HEAT SINKS QSFP
		APVD J. PETERSON 28FEB2008	
		PRODUCT SPEC 108-2286	
		APPLICATION SPEC 114-13218	SIZE A1 · CAGE CODE 00779 · DRAWING NO C-2110412 · RESTRICTED TO -
MATERIAL - -	FINISH - -	WEIGHT -	SCALE 4:1 · SHEET 5 OF 5 · REV F
		CUSTOMER DRAWING	

LifeElectronics
Живое партнерство

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ИНН 7805602321 КПП 780501001 Р/С 40702810122510004610 ФАКБ "АБСОЛЮТ БАНК" (ЗАО) в г.Санкт-Петербурге К/С 30101810900000000703 БИК 044030703

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- *Специальные условия для постоянных клиентов.*
- *Подбор аналогов.*
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- *Приемлемые сроки поставки, возможна ускоренная поставка.*
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- *Комплексную поставку.*
- *Работу по проектам и поставку образцов.*
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- *Техническую поддержку проекта.*
- *Защиту от снятия компонента с производства.*
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