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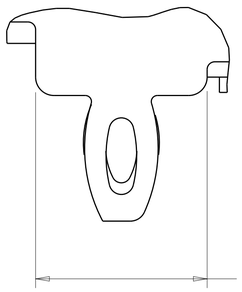
LOC	DIST
GP	00

REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD
	C1	REVISED PER ECO-11-004835	11MAR2011	RK	HMR
	D	REVISED PER ECO-12-005533	31MAR2012	JY	AC
	E	REVISED PER ECO-13-009872	26NOV2013	RG	MC
	F	REVISED PER ECO-14-016878	3DEC2014	RG	MC



DETAIL S △12
SCALE 20:1

△1 CAGE ASSEMBLY MATERIAL: NICKEL SILVER, 0.25 THICK
HEAT SINK MATERIAL: ALUMINUM
HEAT SINK CLIP MATERIAL: STAINLESS STEEL
EMI SPRINGS MATERIAL: COPPER ALLOY
FRONT FLANGE MATERIAL: ZINC ALLOY
LIGHT PIPE MATERIAL: 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 F IS THE NOMINAL THICKNESS OF CUSTOMER SUPPLIED PC BOARD,
SINGLE SIDED PC BOARD MINIMUM THICKNESS = 1.45mm
DOUBLE SIDED PC BOARD MINIMUM THICKNESS = 2.2mm PER QSFP

△7 HEAT SINKS, LIGHT PIPES, AND HEAT SINK CLIPS 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. MATES WITH QSFP MSA COMPATIBLE TRANSCEIVER.

△12 SURFACE TRACES PERMITTED WITHIN THIS AREA EXCEPT WHERE CAGE STANDOFFS, SHOWN IN DETAIL S, CONTACT PC BOARD.

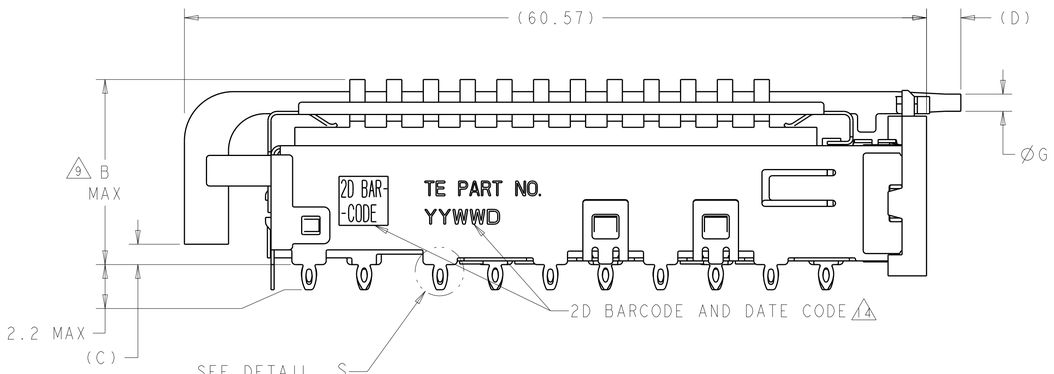
△13 BASELINE FOR THESE DIMENSIONS IS THE CENTER OF COMPLIANT PIN HOLE.

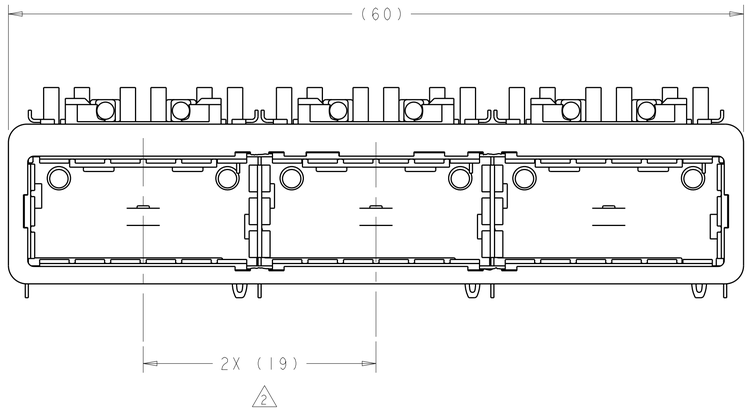
△14 2D BARCODE AND DATE CODE (YYWWD) MARKED ON SIDE OF CAGE ASSEMBLY.

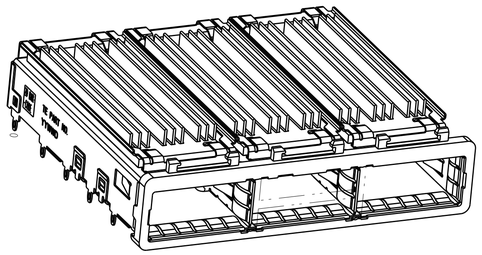
△15 REFERENCE APP SPEC 114-13218 FOR GASKET THICKNESS CALCULATION.

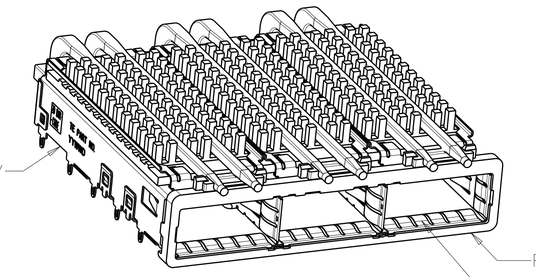
△16 EMI SPRING FINISH: 2µm MIN TIN
FRONT FLANGE FINISH: 3µm MIN TIN OVER 1.27µm MIN NICKEL OVER 5.08µm MIN COPPER.
HEAT SINK FINISH: BLACK ANODIZED.

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

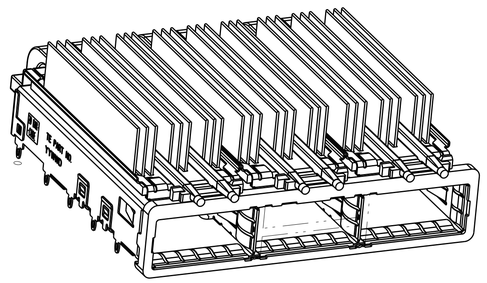





1-2057042-0



SCALE 2:1
2057042-2



SCALE 2:1
1-2057042-1

	G	E	D	C	B	HEAT SINK PROFILE	PART NUMBER
△7	1.4	0.8-1.1	2.0	1.70	21.0	FIN TYPE	1-2057042-1
	N/A	N/A	N/A	N/A	15.0	FIN TYPE	1-2057042-0
△7	2.0	0.8-1.1	3.5	1.70	16.8	CUSTOMERIZED	2057042-9
△7	1.4	0.8-1.1	2.0	1.70	23.0	NETWORKING	2057042-8
△7	1.4	0.8-1.1	2.0	1.70	16.0	SAN	2057042-7
△7,17	1.4	0.8-1.1	2.0	1.70	13.7	PCI	2057042-6
△7	1.4	1.3-1.4	5.7	2.15	16.0	SAN	2057042-5
△7,17	1.4	1.3-1.4	5.7	2.15	13.7	PCI	2057042-4
△7	1.4	0.8-1.1	2.8	1.70	23.0	NETWORKING	2057042-3
△7	1.4	0.8-1.1	2.8	1.70	16.0	SAN	2057042-2
△7,17	1.4	0.8-1.1	2.8	1.70	13.7	PCI	2057042-1

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 △1
FINISH △16

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

TE Connectivity

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

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A1	00779	C-2057042	-

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

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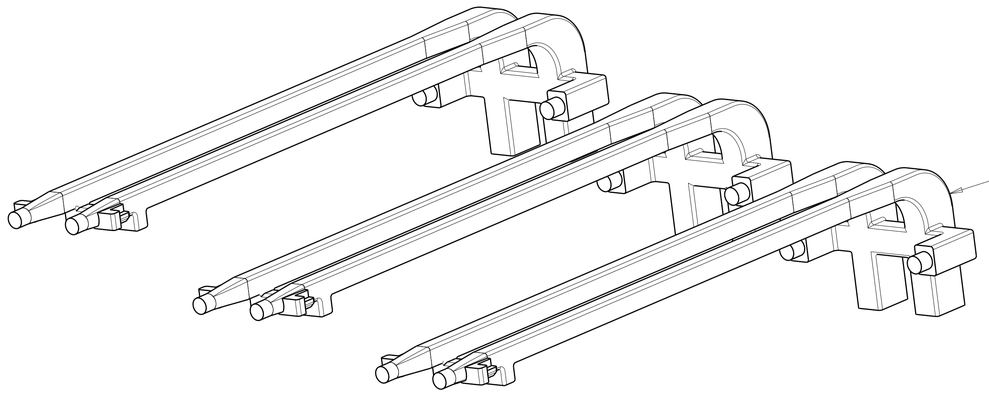
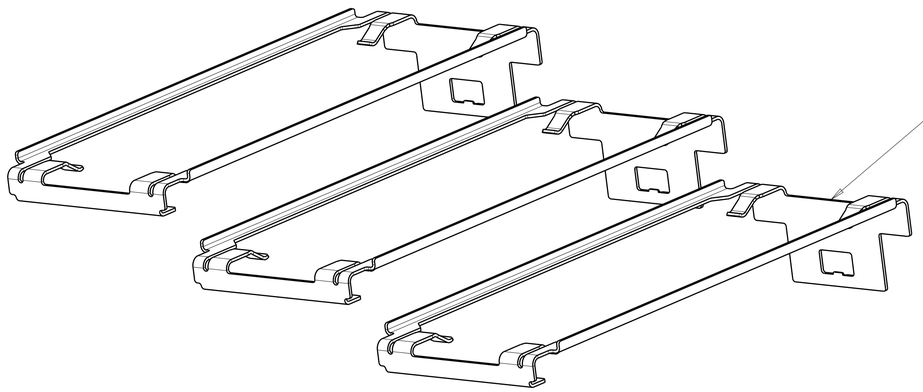
LOC	DIST
GP	00

REVISIONS

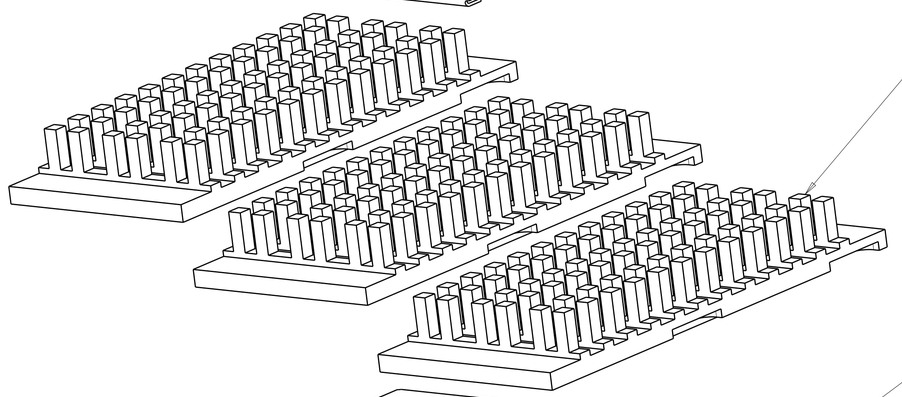
P	LTR	DESCRIPTION	DATE	DWN	APVD
	-	SEE SHEET 1	-	-	-



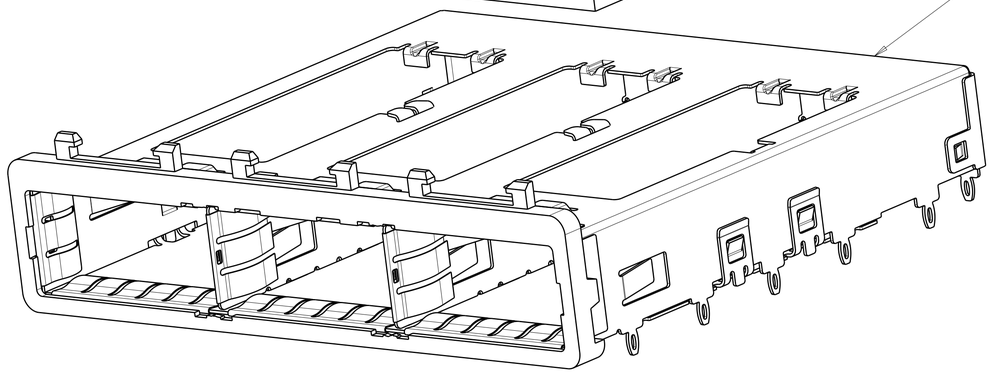
7 17 DOUBLE LIGHT PIPES
QUANTITY: 3



7 17 HEAT SINK CLIPS
QUANTITY: 3



7 17 72 PIN HEAT SINKS
QUANTITY: 3



1X3 BEHIND BEZEL QSFP
CAGE ASSEMBLY
QUANTITY: 1

THIS PRODUCT HAS NOT COMPLETED
VALIDATION/QUALIFICATION TESTING

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 E BRIGHT 28FEB2008
APVD E BRIGHT 28FEB2008
PRODUCT SPEC 108-2286
APPLICATION SPEC 114-13218
WEIGHT -

TE Connectivity

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

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A1	00779	C-2057042	-

CUSTOMER DRAWING | SCALE 4:1 | SHEET 2 OF 5 | REV F

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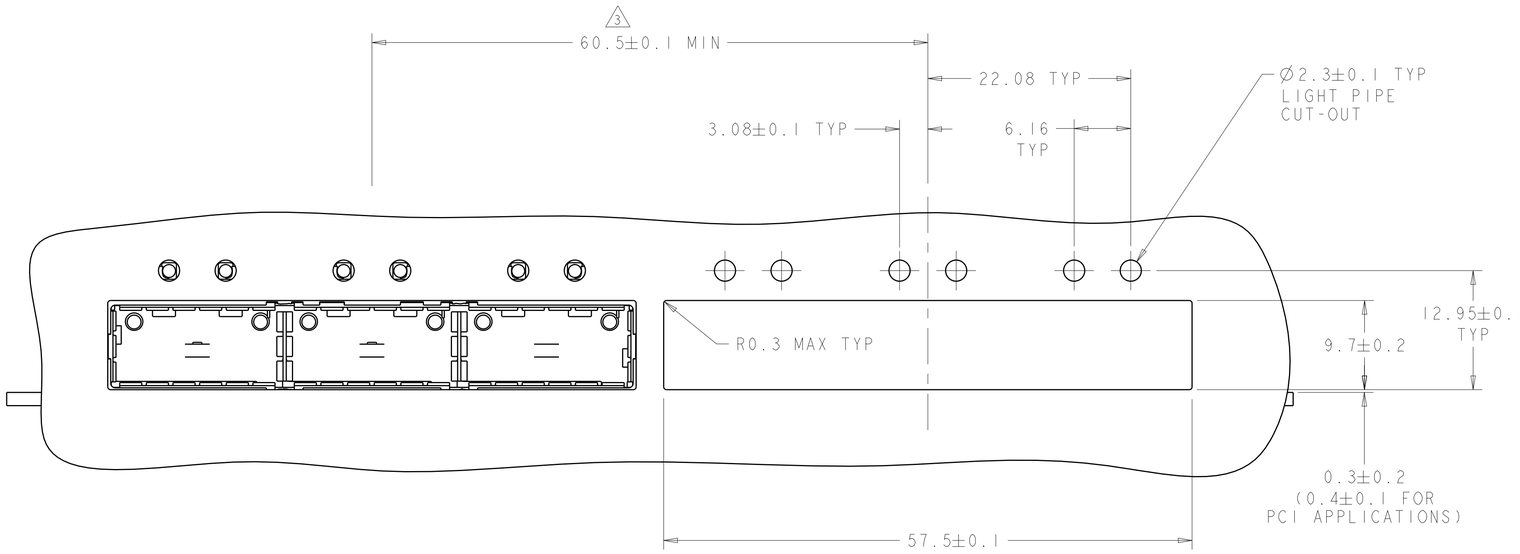
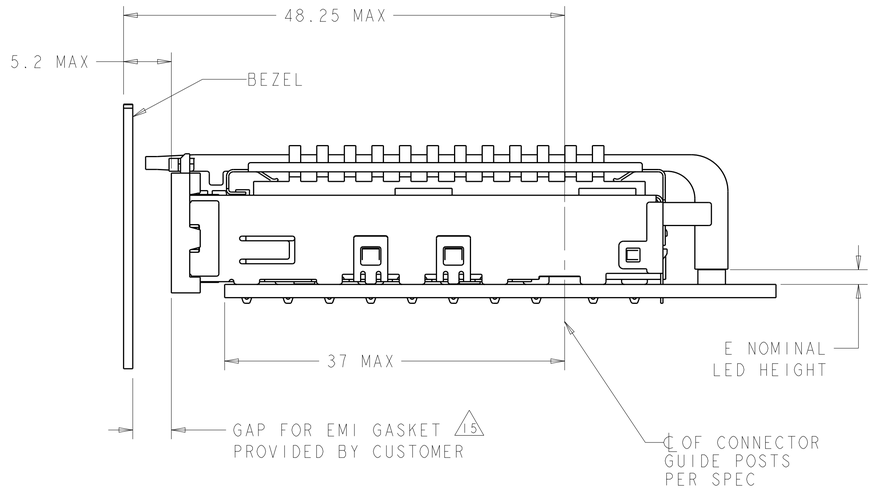
LOC	DIST
GP	00

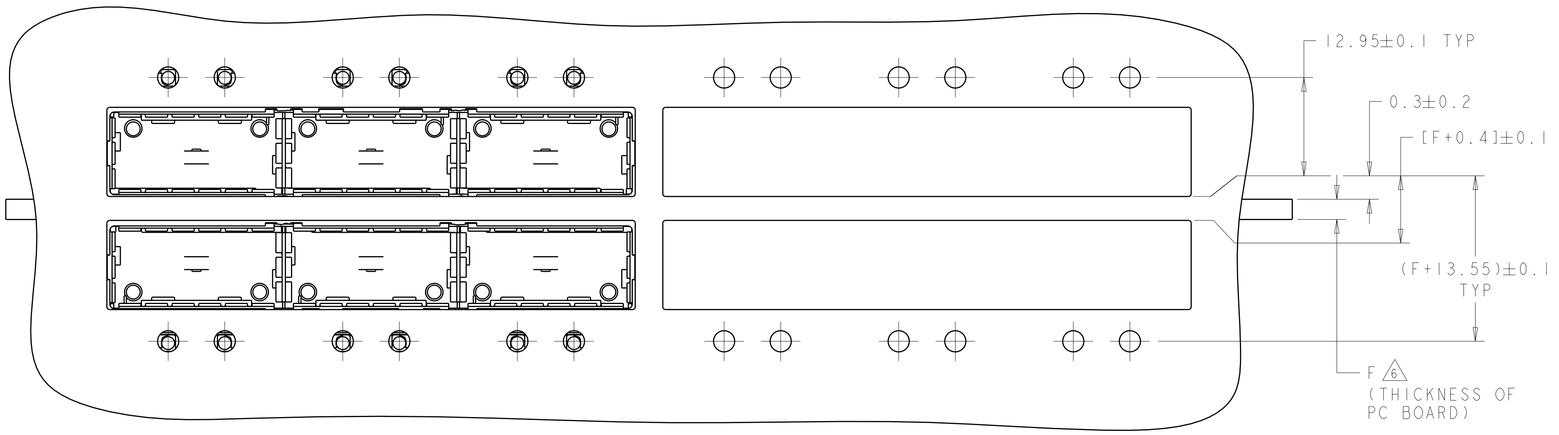
REVISIONS

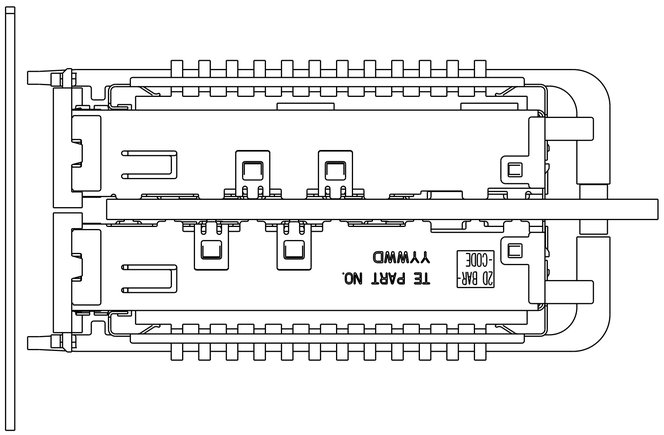
P	LTR	DESCRIPTION	DATE	DWN	APVD
	-	SEE SHEET 1	-	-	-



ONE SIDED CONFIGURATION
SCALE 3:1







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

THIS PRODUCT HAS NOT COMPLETED VALIDATION/QUALIFICATION TESTING

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 E. BRIGHT 28FEB2008	NAME 1X3 CAGE ASSEMBLY, BEHIND BEZEL, W/ LIGHT PIPES AND HEAT SINKS, QSFP
		APVD E. BRIGHT 28FEB2008	PRODUCT SPEC 108-2286
			APPLICATION SPEC 114-13218
MATERIAL	FINISH	WEIGHT -	SIZE A1 · CAGE CODE 00779 · DRAWING NO C-2057042 · RESTRICTED TO -
		CUSTOMER DRAWING	SCALE 4:1 · SHEET 3 OF 5 · REV F

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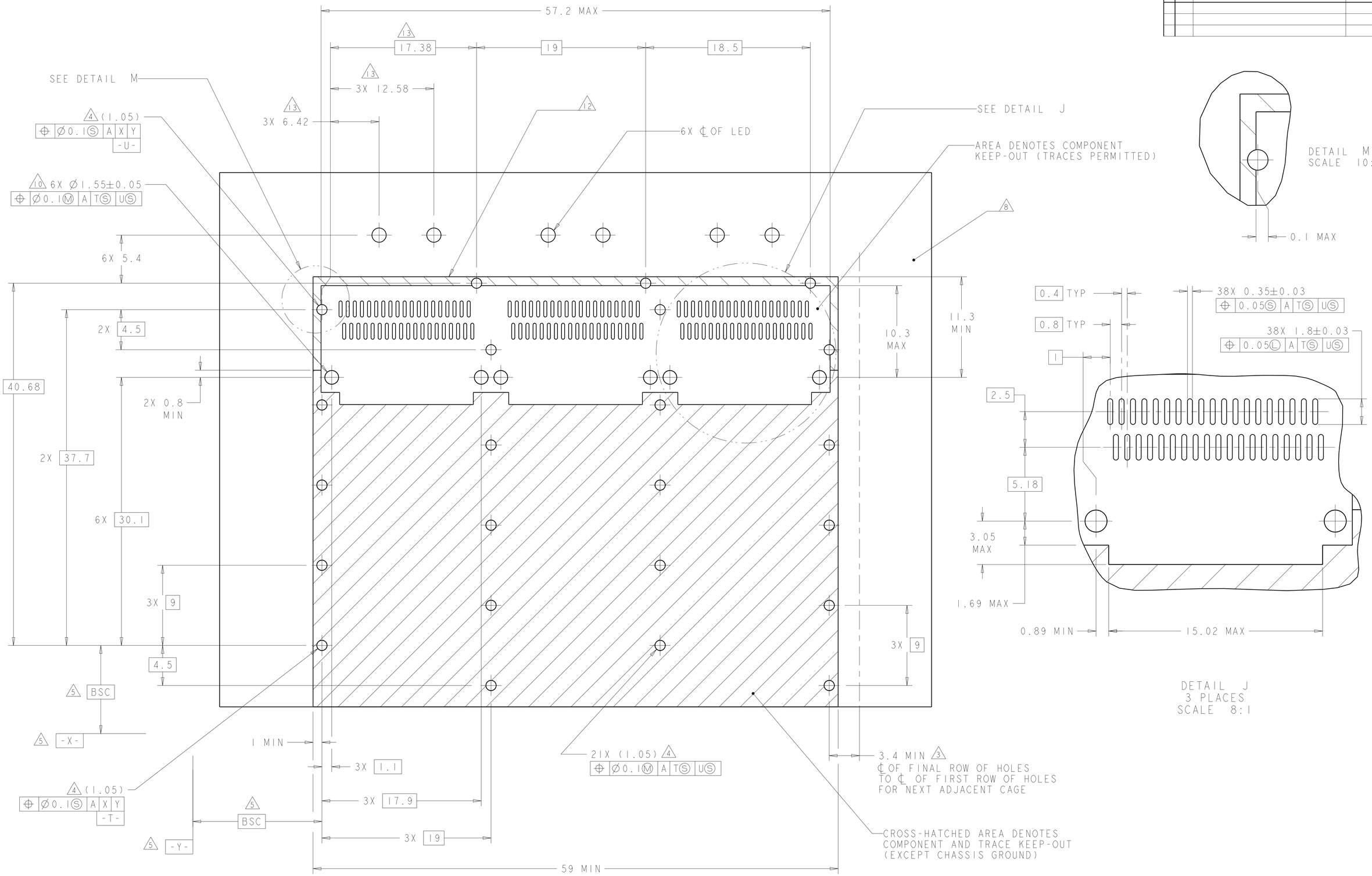
LOC	DIST
GP	00

REVISIONS

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



DETAIL M
SCALE 10:1

DETAIL J
3 PLACES
SCALE 8:1

RECOMMENDED PC BOARD LAYOUT
SINGLE SIDE MOUNT CONFIGURATION
SCALE 5:1

THIS PRODUCT HAS NOT COMPLETED VALIDATION/QUALIFICATION TESTING

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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 ±-	CHK E. BRIGHT 28FEB2008	NAME 1X3 CAGE ASSEMBLY, BEHIND BEZEL, W/ LIGHT PIPES AND HEAT SINKS, QSFP
		APVD E. BRIGHT 28FEB2008	
		PRODUCT SPEC 108-2286	
		APPLICATION SPEC 114-13218	SIZE A1 · CAGE CODE 00779 · DRAWING NO C-2057042 · RESTRICTED TO -
MATERIAL	FINISH	WEIGHT -	SCALE 4:1 · SHEET 4 OF 5 · REV F
		CUSTOMER DRAWING	

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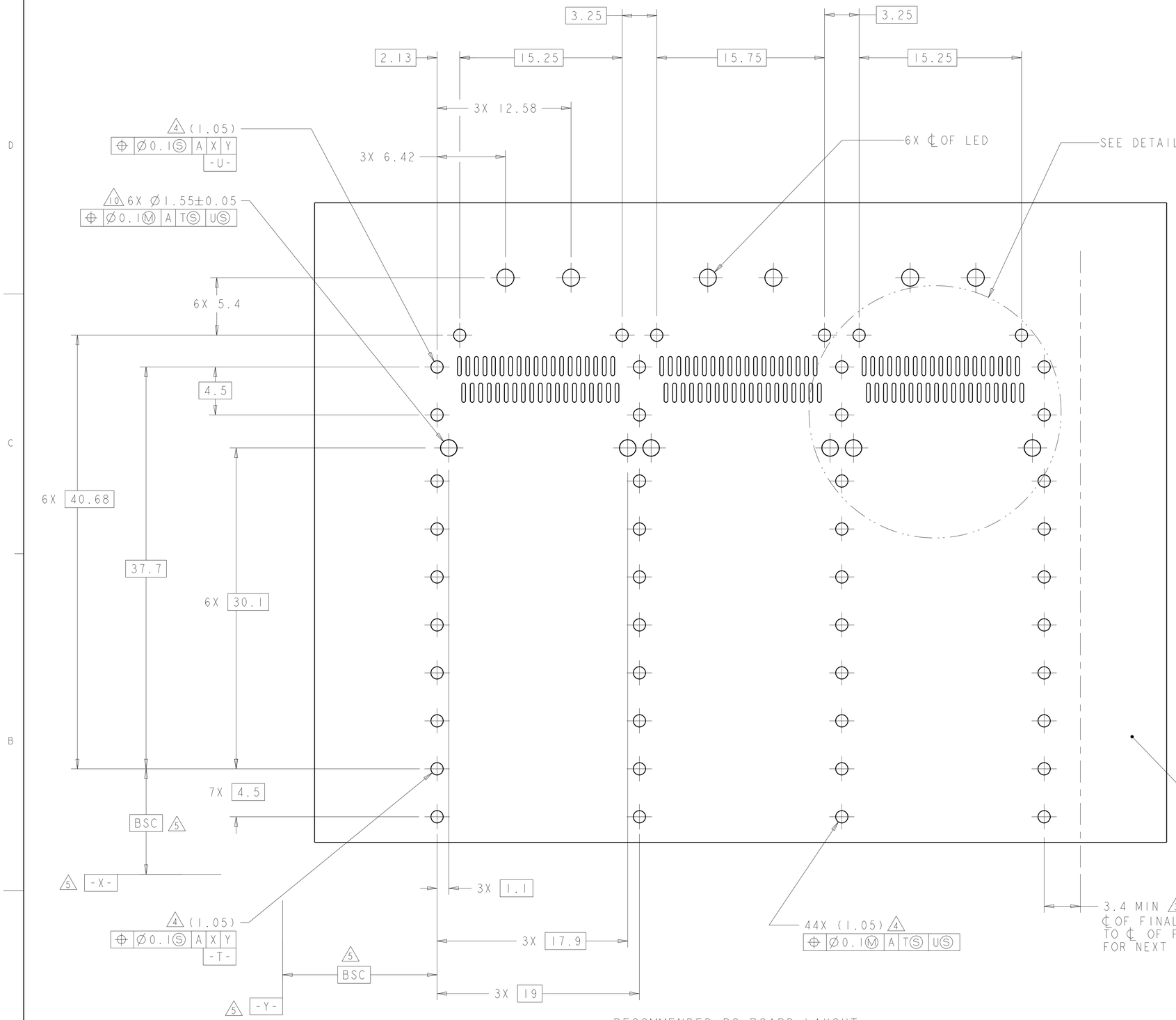
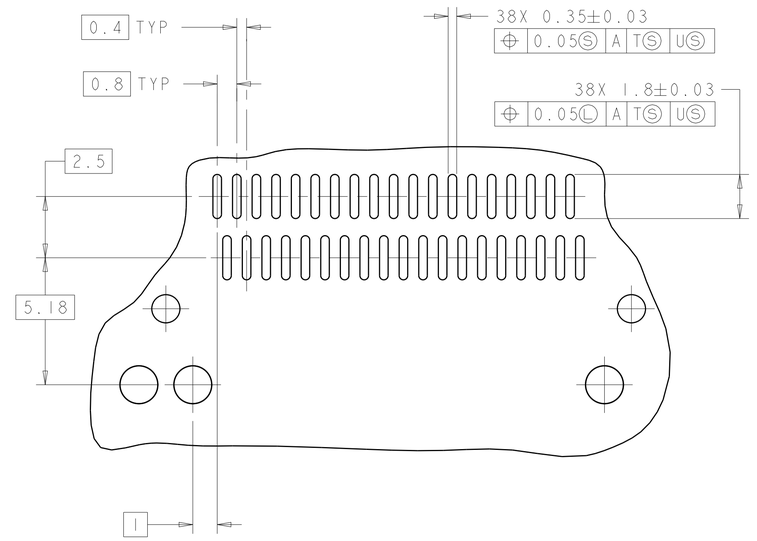
P	LTR	DESCRIPTION	DATE	DWN	APVD
	-	SEE SHEET 1	-	-	-



RECOMMENDED PC BOARD LAYOUT
BELLY TO BELLY CONFIGURATION
SEE SHEET 4 FOR COMPONENT
AND TRACE KEEP-OUTS
SCALE 5:1



DETAIL K
3 PLACES
SCALE 8:1

THIS PRODUCT HAS NOT COMPLETED VALIDATION/QUALIFICATION TESTING

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 E BRIGHT 28FEB2008	NAME 1X3 CAGE ASSEMBLY, BEHIND BEZEL, W/ LIGHT PIPES AND HEAT SINKS, QSFP
		APVD E BRIGHT 28FEB2008	PRODUCT SPEC 108-2286
			APPLICATION SPEC 114-13218
MATERIAL	FINISH	WEIGHT -	SIZE A1 · CAGE CODE 00779 · DRAWING NO C-2057042 · RESTRICTED TO -
CUSTOMER DRAWING		SCALE 4:1	SHEET 5 OF 5 · REV F

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.);

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AVIC JONHON

«JONHON» (основан в 1970 г.)

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(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