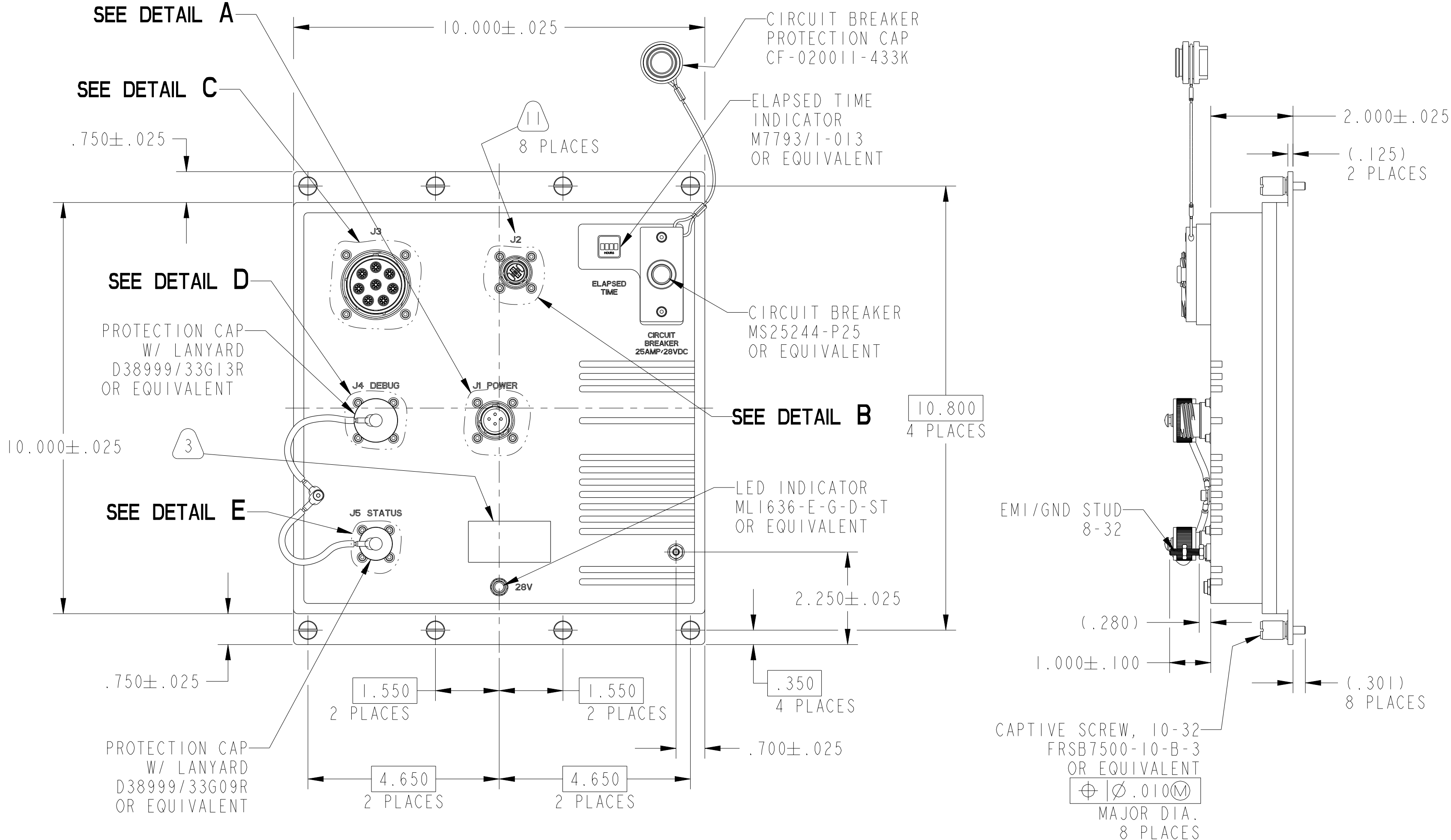


REV. B	SHEET 1 OF 5	DOCUMENT NO. CF-020400-062
REVISIONS M		
LTR	DESCRIPTION	DATE
A	INITIAL RELEASE	11/16/21
B	(CL 11) SEE ECN D4711	03/10/2022



ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
SENSITIVE
DEVICES

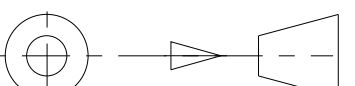
SEE SHEET 5

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NONE
NEXT ASSEMBLY

PRO/ENGINEER INFORMATION
Pro/e Model Used:
CF-020400-062.ASSEM
Drawing Name:
CF-020400-062

UNLESS OTHERWISE SPECIFIED		SPECIFICATIONS		POS	QTY	PART NUMBER	DESCRIPTION	NOTE	
LINEAR DIMENSIONS ARE IN INCHES TOLERANCES: .XXXX = ±.0005 ANGLES= ±2° .XXX = ±.010 .XX = ±.03 .X = ±.1 ----- DIM.& TOL. PER ASME Y14.5M; DRM PER MIL-STD-31000; OTHER Amphenol Sids. PER 9-3800 LEGENDS: =FLAG NOTE CALL OUT REFERENCE ONLY 		MATERIAL SPEC.		PARTS LIST					
		NONE		APPROVALS		DATE	AMPHENOL CORPORATION 40-60 DELAWARE AVENUE SIDNEY, N.Y. 13838		
		PROCESS SPEC.		PREPARED BY		16-Nov-21			
		SEE NOTE 6		ENGINEER IN CHARGE					
				DESIGN MANAGER			ETHERNET SWITCH BOX		
		DESIGN ACTIVITY GROUP		8 CH COPPER / 24 CH FIBER					
		THIRD ANGLE PROJECTION			SIZE	CAGE CODE	DOCUMENT NO.	REV.	
				C	77820	CF-020400-062	B		
				SCALE: 0.5		REF. CF-020011-433	SHEET 1 OF 5		

DOCUMENT NO. CF-020400-062

SHEET 1 OF 5

REV. B

4

3

2

REV. B

SHEET 2 OF 5

CF-020400-062

DOCUMENT NO. CF-020400-062

SHEET 2 OF 5

REV. B

I/O CHART

CONNECTOR DESCRIPTION	PIN NO.	DATA DIRECTION	SIGNAL NAME
J1 (POWER) 13-4P KEYING "N"	A	IN	28VDC_IN
	B	OUT	28VDC_RTN
	C	--	SAFETY GROUND / CHASSIS
	D	--	NOT CONNECTED
	SHELL	--	CHASSIS
J4 (DEBUG) 13-35P KEYING "N"	1	OUT	RS232_CONSOLE_TX
	2	IN	RS232_CONSOLE_RX
	3	--	RS232_CONSOLE_GND
	4	IN	DEBUG_JTAG_TCLK
	5	OUT	DEBUG_JTAG_TDO
	6	IN	DEBUG_JTAG_TDI
	7	IN	DEBUG_JTAG_TTMS
	8	IN	DEBUG_I2C_SCL
	9	BI	DEBUG_I2C_SDA
	10	--	NOT CONNECTED
	11	--	NOT CONNECTED
	12	BI	DEBUG_CPU_USB_D+
	13	BI	DEBUG_CPU_USB_D-
	14	BI	DEBUG_CPU_1GBASET_DA+
	15		DEBUG_CPU_1GBASET_DA-
	16		DEBUG_CPU_1GBASET_DB+
	17		DEBUG_CPU_1GBASET_DB-
	18		DEBUG_CPU_1GBASET_DC+
	19		DEBUG_CPU_1GBASET_DC-
	20		DEBUG_CPU_1GBASET_DD+
	21		DEBUG_CPU_1GBASET_DD-
	22	--	NOT CONNECTED
	SHELL	--	CHASSIS
J5 (STATUS/RESET) 9-35P KEYING "N"	1	IN	SWITCHBOX_RESET
	2	OUT	POWERSUPPLY_STATUS
	3	OUT	CHASSIS_STATUS
	4	OUT	TEMPERATURE_WARNING_STATUS
	5	--	RESET_RTN
	6	--	NOT CONNECTED
	SHELL	--	CHASSIS

SEE SHEET 5

NOTES:

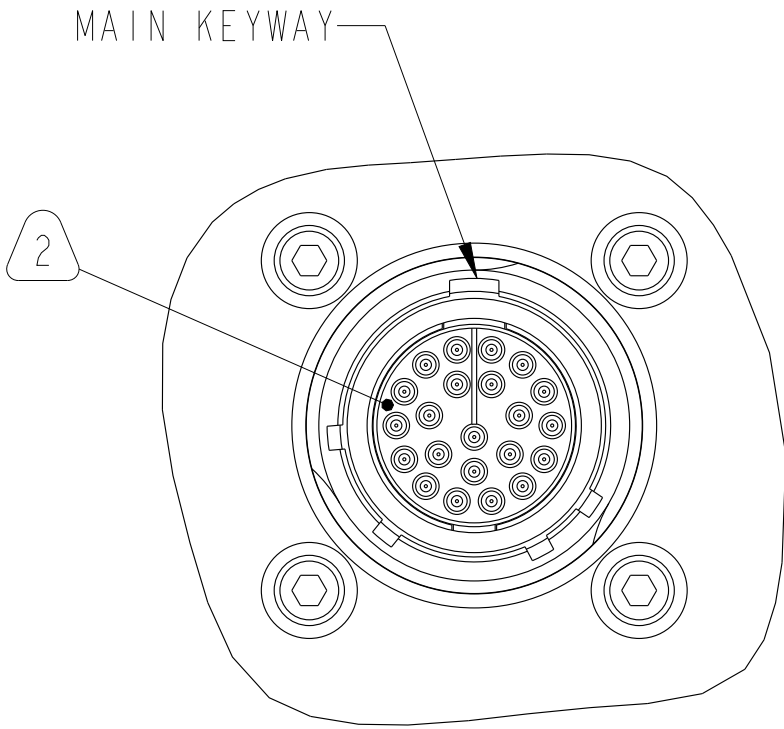
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DOCUMENT NO. CF-020400-062

SHEET 2 OF 5

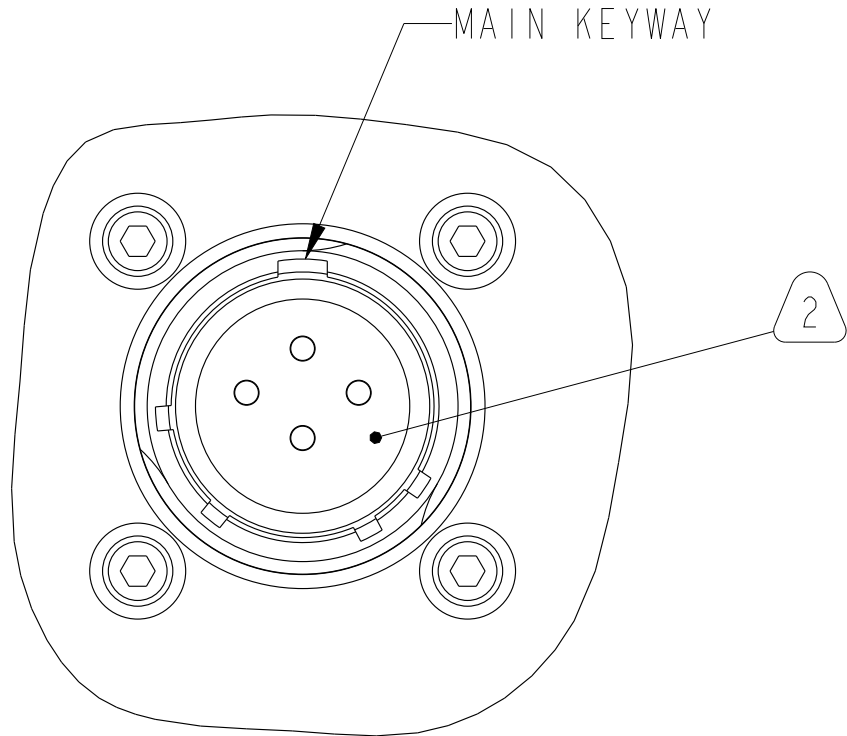
REV. B

MAIN KEYWAY



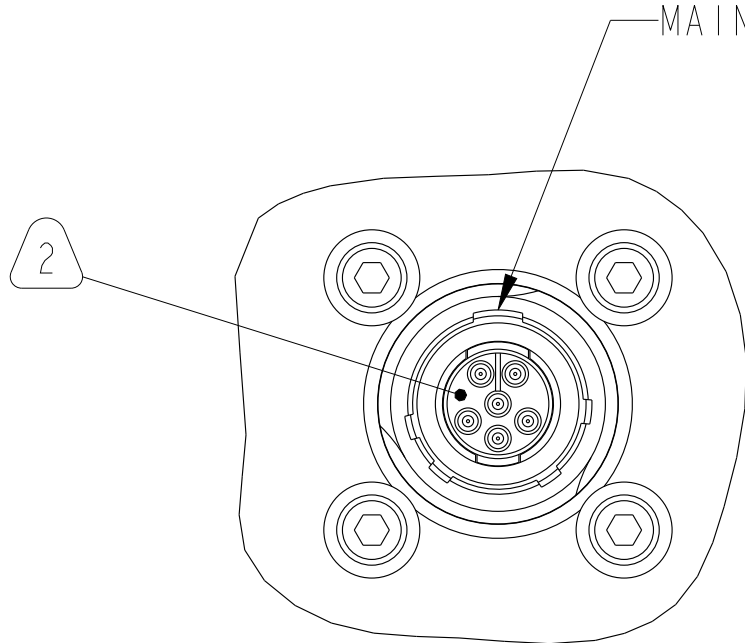
DETAIL D
J4
CAP NOT SHOWN FOR CLARITY
SCALE 2.000

MAIN KEYWAY



DETAIL A
J1
SCALE 2.000

MAIN KEYWAY



DETAIL E
J5
CAP NOT SHOWN FOR CLARITY
SCALE 2.000

DOCUMENT NO. CF-020400-062

SHEET 2 OF 5

REV. B

SIZE C

CAGE CODE 77820

DOCUMENT NO. CF-020400-062

REV. B

SCALE: 0.5

REF: CF-020011-433

SHEET 2 OF 5

4

3

2

REV. B

SHEET 2 OF 5

CF-020400-062

DOCUMENT NO. CF-020400-062

SHEET 2 OF 5

REV. B

SIZE C

CAGE CODE 77820

DOCUMENT NO. CF-020400-062

REV. B

SCALE: 0.5

REF: CF-020011-433

SHEET 2 OF 5

4

3

2

REV. B

SHEET 2 OF 5

CF-020400-062

I/O CHART (CONTINUED)			
CONNECTOR DESCRIPTION	PIN NO.	DATA DIRECTION	SIGNAL NAME
J2 11-1S 48F MT KEYING "N"	1	IN	PORT12_10GBASESR_RX
	2		PORT11_10GBASESR_RX
	3		PORT10_10GBASESR_RX
	4		PORT9_10GBASESR_RX
	5		PORT8_10GBASESR_RX
	6		PORT7_10GBASESR_RX
	7		PORT6_10GBASESR_RX
	8		PORT5_10GBASESR_RX
	9		PORT4_10GBASESR_RX
	10		PORT3_10GBASESR_RX
	11		PORT2_10GBASESR_RX
	12		PORT1_10GBASESR_RX
	13	OUT	PORT12_10GBASESR_TX
	14		PORT11_10GBASESR_TX
	15		PORT10_10GBASESR_TX
	16		PORT9_10GBASESR_TX
	17		PORT8_10GBASESR_TX
	18		PORT7_10GBASESR_TX
	19		PORT6_10GBASESR_TX
	20		PORT5_10GBASESR_TX
	21		PORT4_10GBASESR_TX
	22		PORT3_10GBASESR_TX
	23		PORT2_10GBASESR_TX
	24		PORT1_10GBASESR_TX

4

3

2

REV. B

SHEET 4 OF 5

DOCUMENT NO. CF-020400-062

DOCUMENT NO. CF-020400-062

SHEET 4 OF 5

REV. B

CONNECTOR DESCRIPTION

PIN NO.

DATA DIRECTION

SIGNAL NAME

J3

25-8S KEYING "N"

BI

PORT25_10GBASET_DA+
PORT25_10GBASET_DA-
PORT25_10GBASET_DB+
PORT25_10GBASET_DB-
PORT25_10GBASET_DC+
PORT25_10GBASET_DC-
PORT25_10GBASET_DD+
PORT25_10GBASET_DD-
PORT26_10GBASET_DA+
PORT26_10GBASET_DA-
PORT26_10GBASET_DB+
PORT26_10GBASET_DB-
PORT26_10GBASET_DC+
PORT26_10GBASET_DC-
PORT26_10GBASET_DD+
PORT26_10GBASET_DD-
PORT27_10GBASET_DA+
PORT27_10GBASET_DA-
PORT27_10GBASET_DB+
PORT27_10GBASET_DB-
PORT27_10GBASET_DC+
PORT27_10GBASET_DC-
PORT27_10GBASET_DD+
PORT27_10GBASET_DD-
PORT28_10GBASET_DA+
PORT28_10GBASET_DA-
PORT28_10GBASET_DB+
PORT28_10GBASET_DB-
PORT28_10GBASET_DC+
PORT28_10GBASET_DC-
PORT28_10GBASET_DD+
PORT28_10GBASET_DD-

SEE SHEET 5

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DOCUMENT NO. CF-020400-062

SHEET 4 OF 5

REV. B

CONNECTOR DESCRIPTION

PIN NO.

DATA DIRECTION

SIGNAL NAME

J3

25-8S KEYING "N"

BI

PORT29_10GBASET_DA+
PORT29_10GBASET_DA-
PORT29_10GBASET_DB+
PORT29_10GBASET_DB-
PORT29_10GBASET_DC+
PORT29_10GBASET_DC-
PORT29_10GBASET_DD+
PORT29_10GBASET_DD-
PORT30_10GBASET_DA+
PORT30_10GBASET_DA-
PORT30_10GBASET_DB+
PORT30_10GBASET_DB-
PORT30_10GBASET_DC+
PORT30_10GBASET_DC-
PORT30_10GBASET_DD+
PORT30_10GBASET_DD-
PORT31_10GBASET_DA+
PORT31_10GBASET_DA-
PORT31_10GBASET_DB+
PORT31_10GBASET_DB-
PORT31_10GBASET_DC+
PORT31_10GBASET_DC-
PORT31_10GBASET_DD+
PORT31_10GBASET_DD-
PORT32_10GBASET_DA+
PORT32_10GBASET_DA-
PORT32_10GBASET_DB+
PORT32_10GBASET_DB-
PORT32_10GBASET_DC+
PORT32_10GBASET_DC-
PORT32_10GBASET_DD+
PORT32_10GBASET_DD-

A OUTER
B OUTER
C OUTER
D OUTER
E OUTER
F OUTER
G OUTER
H OUTER
SHELL

--

CHASSIS

MAIN KEYWAY

SEE DETAIL G

2

DETAIL C

J3

SCALE 2.000

1

2

3

4

5

6

7

8

DETAIL G

OCTONET

SCALE 6.000

REV. B

SHEET 4 OF 5

DOCUMENT NO. CF-020400-062

SIZE C

CAGE CODE 77820

DOCUMENT NO. CF-020400-062

REV. B

SCALE: 0.5

REF: CF-020011-433

SHEET 4 OF 5

4

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2

REV. B

SHEET 5 OF 5

DOCUMENT NO. CF-020400-062

DOCUMENT NO. CF-020400-062

SHEET 5 OF 5

REV. B

13. PROTECTIVE CAPS SHALL BE INSTALLED TO CONNECTORS PRIOR TO SHIPPING.

12.

INDICATED SURFACE SHALL BE PAINT FREE FOR ELECTRICAL BONDING. PAINT FREE SURFACE SHALL BE COATED WITH CONDUCTIVE FINISH SUCH AS ALODINE OR IRIDITE, COLOR YELLOW.

11.

STAMP IDENTIFICATION DESIGNATORS ON FRONT HOUSING IN CONTRASTING COLOR. LOCATE APPROXIMATELY AS SHOWN. LETTER HEIGHT .100" MIN. STAMPING PER 9-3856-5.

10. ALL TX AND RX SPECIFIED ON I/O CHART ARE FROM THE PERSPECTIVE OF CF-020400-062 ASSEMBLY.

9. ASSEMBLY HOUSINGS ARE ALUMINUM ALLOY PAINTED BLACK PER FED-STD-595, COLOR# 37038.

8. CONNECTOR SHELLS ARE ELECTROLESS NICKEL PLATED ALUMINUM ALLOY.

7. FIBER LINES SHALL BE 850nm SIGNAL COMPATIBLE 50/125 GRADED INDEX MULTIMODE FIBER.

6. PROCESS SPECS: 9-9172-3, 9-3856-5

5. MARKING ON LABEL MAY DIFFER FROM DRAWING BASED ON CUSTOMER SPECIFIC ORDER REQUIREMENTS.

4. PACKAGE PER PRODUCTION PROCESS SHEET.

3.

MARK LABEL WITH "AMPHENOL", PART NUMBER AND 7 DIGIT SERIAL NUMBER AND ATTACH ON INDICATED SURFACE. SERIAL NUMBER PER 9-9172-3.

EXAMPLE:
AMPHENOL
CF-020400-062
2103003

2.

FOR INSERT ARRANGEMENT, SEE FOLLOWING DOCUMENTS.

- J1 CONNECTOR: L-21812-4
- J2 CONNECTOR: L-38711-M1
- J3 CONNECTOR: LQ-21824-8
- J4 CONNECTOR: L-21812-35
- J5 CONNECTOR: L-21808-35

1. ASSEMBLY CONTAINS ELECTROSTATIC DISCHARGE (ESD) SENSITIVE COMPONENTS. ASSEMBLY SHALL BE HANDLED, PACKAGED, AND SHIPPED TO MEET REQUIREMENTS OF ANSI/ESD-S-20.20 AND IPC-610.

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DOCUMENT NO. CF-020400-062

SHEET 5 OF 5

REV. B

CONNECTOR LIST

CONNECTOR DESIGNATOR	CONNECTOR PART NUMBER	CONTACT(S) USED	MATING CONNECTOR (OR EQUIVALENT)	MATING CONTACT (OR EQUIVALENT)
J1 POWER	10-646401-437N	(4X) SIZE 16 PIN 10-497630-16X	TV06RF-13-4S(LC)	SIZE 16 SOCKET M39029/106-622
J2	CF-971332-01S	(1X) 48F MT FERRULE 12599 (1X) MT MALE KIT CF-198233-001	CF-594611-01P	48F MT FERRULE 12599 MT FEMALE KIT CF-198234-001
J3	10-646402-612N	(8X) 21-032907-001 OCTONET, SOCKET	TV06RQF-25-8P(LC)	21-032904-021 OCTONET, PIN COMPATIBLE W / PIC E6A3824 1000HM CABLE (OR EQUIVALENT)
J4 DEBUG	10-646401-436N	(22X) SIZE 22D PIN 10-407552-23X	TV06RF-13-35S(LC)	SIZE 22D SOCKET M39029/106-620
J5 STATUS	10-646401-435N	(6X) SIZE 22D PIN 10-407552-23X	TV06RF-9-35S(LC)	SIZE 22D SOCKET M39029/106-620

FRONT ISOMETRIC VIEW

SCALE 0.500

BORE TOP

12

REAR ISOMETRIC VIEW

SCALE 0.500

DOCUMENT NO. CF-020400-062

SHEET 5 OF 5

REV. B

VERSION 0

REVISION B

Eng PDM Information For Reference Only

4

3

2

1