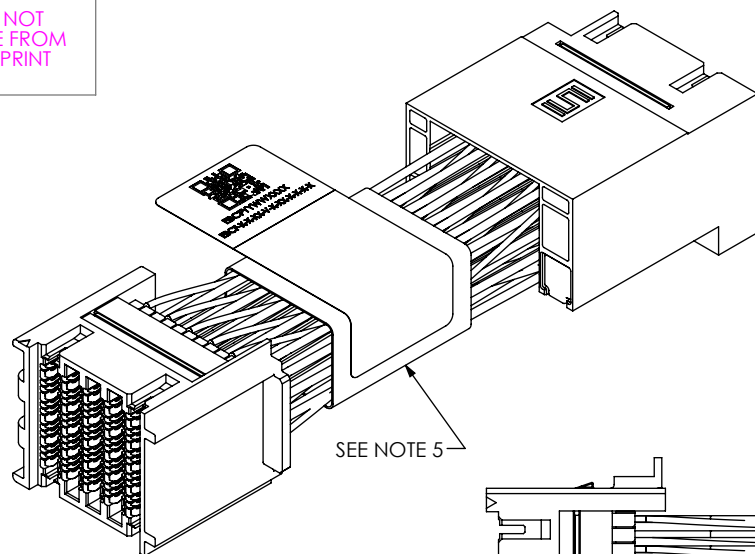


DO NOT
SCALE FROM
THIS PRINT



SEE NOTE 5

CABLE STYLE AND SIGNAL MAP

- 1: 34AWG TwinAx 100OHM, TX TO RX SIGNAL MAP
- 2: 30AWG TwinAx 100OHM, TX TO RX SIGNAL MAP
- 3: 34AWG TwinAx 100OHM, 1:1 SIGNAL MAP
- 4: 30AWG TwinAx 100OHM, 1:1 SIGNAL MAP
- *-5: 34AWG TwinAx 92.5OHM, TX TO RX SIGNAL MAP
- 6: 34AWG ThinAx 92.5OHM, TX TO RX SIGNAL MAP
- *-7: 34AWG TwinAx 92.5OHM, 1:1 SIGNAL MAP
- 8: 34AWG ThinAx 92.5OHM, 1:1 SIGNAL MAP

PAIRS PER COLUMN

-4

COLUMNS

***-04, -06, -08,
-10, ***-12, ***-14, ***-16

END 1

-V: VERTICAL LATCH

END 1 PIN CONFIGURATION

- 1: STANDARD
- *-2: ADVANCED MATE
- *-3: SHORT DETECT
- *-4: ADVANCED MATE AND SHORT DETECT

END 2 KEY
(-R END OPTION ONLY)
-A THRU -H: POSITION
OF FLAT ON KEY
BLANK: NO KEY

END 2 GUIDE
(-R END OPTION ONLY)
-L: LEFT GUIDE
-R: RIGHT GUIDE

END 2 PIN CONFIGURATION
-1: STANDARD
*-2: ADVANCED MATE
*-3: SHORT DETECT
*-4: ADVANCED MATE AND SHORT DETECT

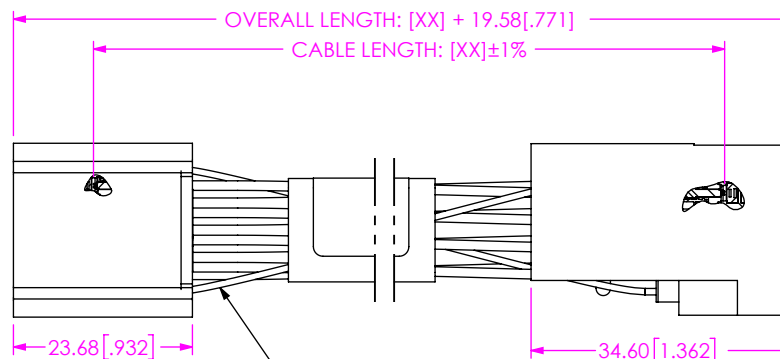
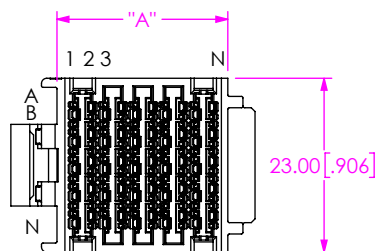
END 2 OPTION
-V: VERTICAL LATCH
**R: RIGHT ANGLE

CABLE LENGTH
-XX (INCHES)
(06 INCHES MINIMUM,
SEE NOTE 3 & 8)

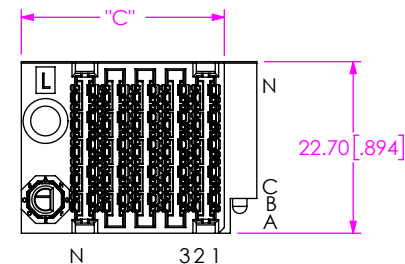
(* = NOT TOOLED)
(** = NOT TOOLED FOR -04 & -06 COLUMNS)
(*** = SEE NOTE 7)
(**** = NOT RELEASED)

TABLE 1

COLUMNS	"A"	"B"	"C"
-04	10.60 [.417]	19.15 [.754]	14.85 [.585]
-06	14.60 [.575]	23.15 [.911]	18.85 [.742]
-08	18.60 [.732]	27.15 [1.069]	22.85 [.900]
-10	22.60 [.890]	31.15 [1.226]	26.85 [1.057]
-12	26.60 [1.047]	35.15 [1.384]	30.85 [1.215]
-14	30.60 [1.205]	39.15 [1.541]	34.85 [1.372]
-16	34.60 [1.362]	43.15 [1.699]	38.85 [1.530]



SEE NOTE 4



END 1

END 2

NOTES:

1. ALL ASSEMBLIES TO BE 100% HI-POT TESTED AT 300V.
2. ALL ASSEMBLIES TO BE 100% ELECTRICALLY TESTED FOR SHORTS AND OPENS.
3. CABLE LENGTHS LONGER THAN 40 INCHES ARE NOT SUPPORTED BY S.I. TEST DATA.
4. LSX WIRE TO BE 34 AWG CO-AX STANDARD.
5. EBCF COMES STANDARD WITH SRS CABLE SLEEVING.
6. NOTE DELETED.
7. CONTACT SAMTEC, CONFIGURATION NOT STANDARD.
8. MAX STANDARD CABLE LENGTH IS 5 METERS. FOR LENGTHS GREATER THAN 5 METERS, CONTACT HDR@SAMTEC.COM

FIG 1
EBCF-X-4-10-V-1-XX-R-1-L-G SHOWN

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MATERIAL:
INSULATOR: LCP
SIGNAL & GROUND PINS: COPPER ALLOY
PLATING: 30µ" SELECTIVE GOLD IN CONTACT AREA

DESCRIPTION:

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520 PARK EAST BLVD, NEW ALBANY, IN 47150
PHONE: 812-944-6733 FAX: 812-948-5047
e-Mail: info@SAMTEC.com code 55322

DWG. NO.

EBCF-X-4-XX-V-X-XX-X-X-X-X

BY: CANDY W 06/16/2017 SHEET 1 OF 6

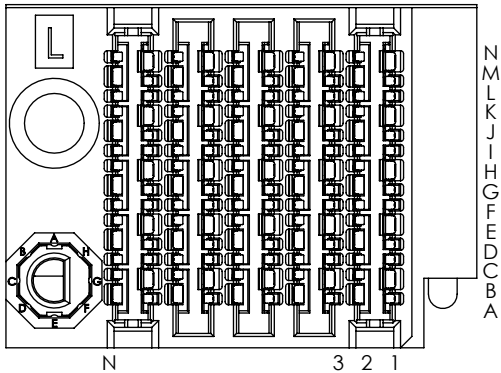


FIG 2
END 2, -R-1-L-G SHOWN

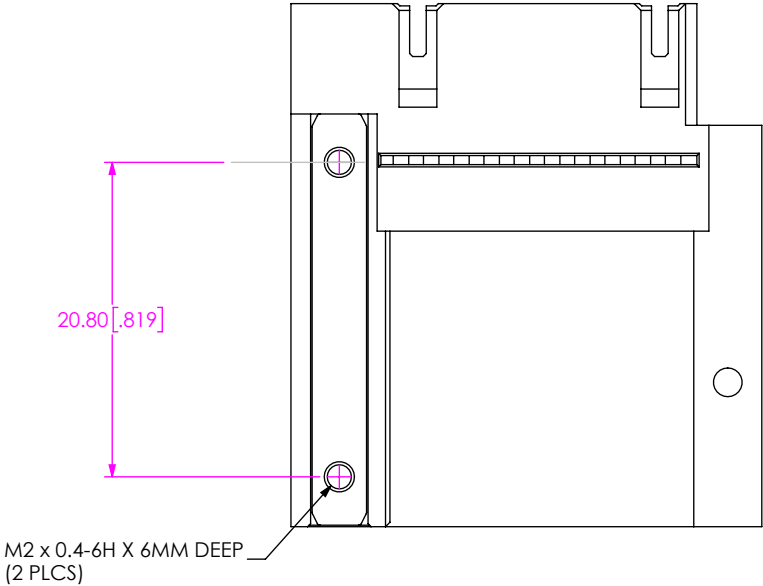


TABLE 2								
GUIDANCE	KEYING							
-R / -L	-A	-B	-C	-D	-E	-F	-G	-H

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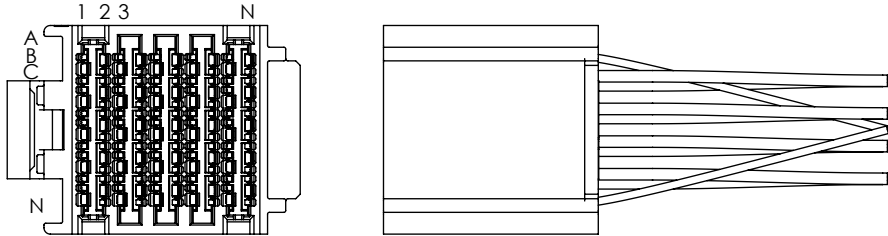
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DESCRIPTION:
EXAMAX BACKPLANE CABLE

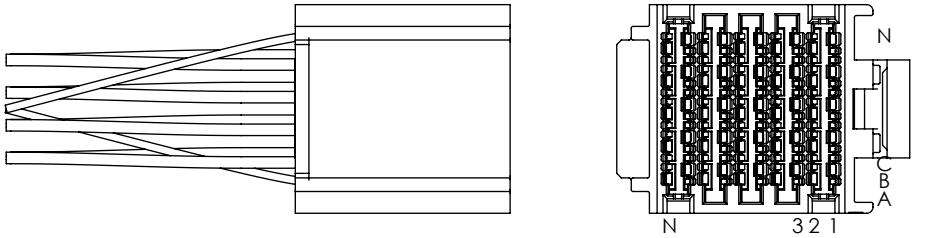
DWG. NO.
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BY: CANDY W 06/16/2017 SHEET 2 OF 6

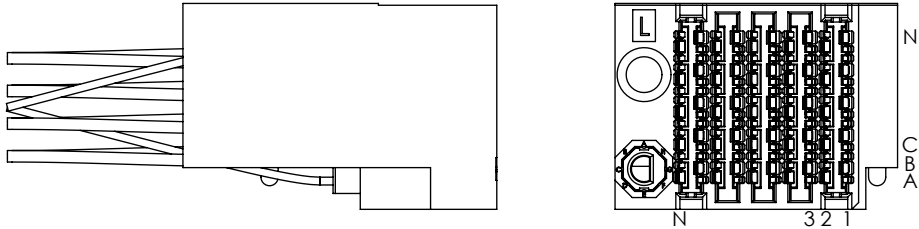
END 1 ORIENTATION



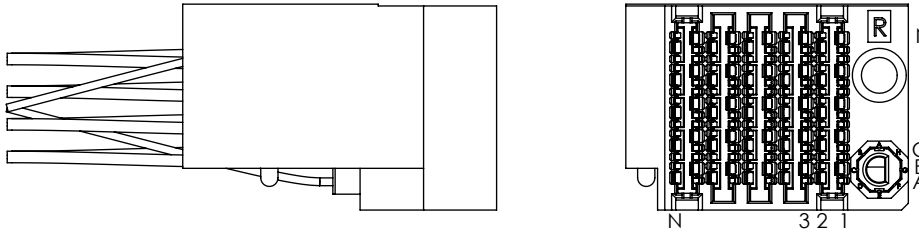
END 2 ORIENTATIONS



EBCF-X-4-10-V-1-XX-V-1 SHOWN



EBCF-X-4-10-V-1-XX-R-1-L-G SHOWN



EBCF-X-4-10-V-1-XX-R-1-R-G SHOWN

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	DESCRIPTION: EXAMAX BACKPLANE CABLE
	DWG. NO. EBCF-X-4-XX-V-X-XX-X-X-X-X
BY: CANDY W 06/16/2017 SHEET 3 OF 6	

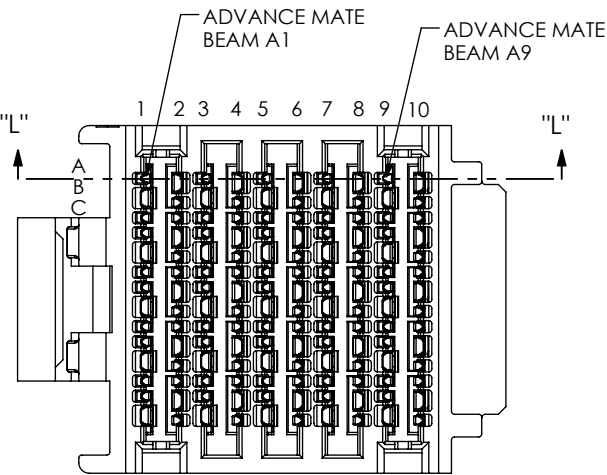
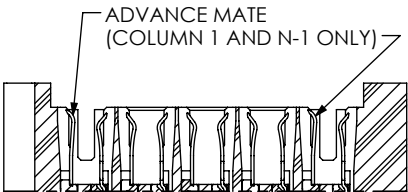


FIG 3
ADVANCED MATE
EBCF-X-4-10-V-2 SHOWN
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)
(NOT TOOLED)



SECTION "L"-"L"
SCALE 2 : 1

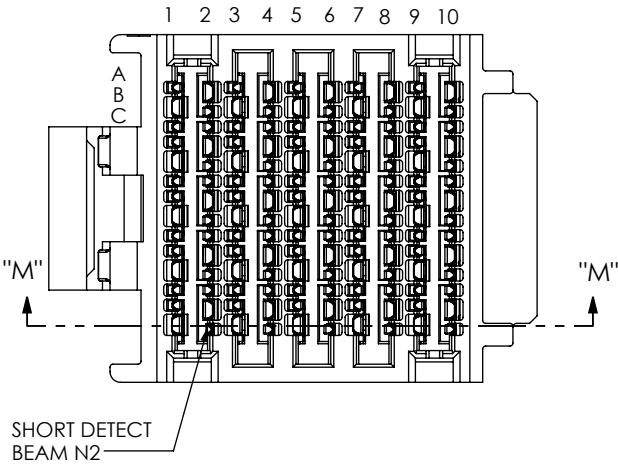
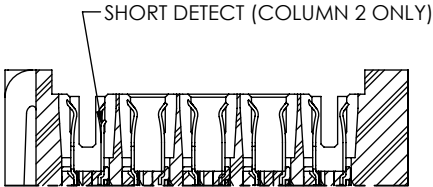


FIG 4
SHORT DETECT
EBCF-X-4-10-V-3 SHOWN
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)
(NOT TOOLED)



SECTION "M"-"M"
SCALE 2 : 1

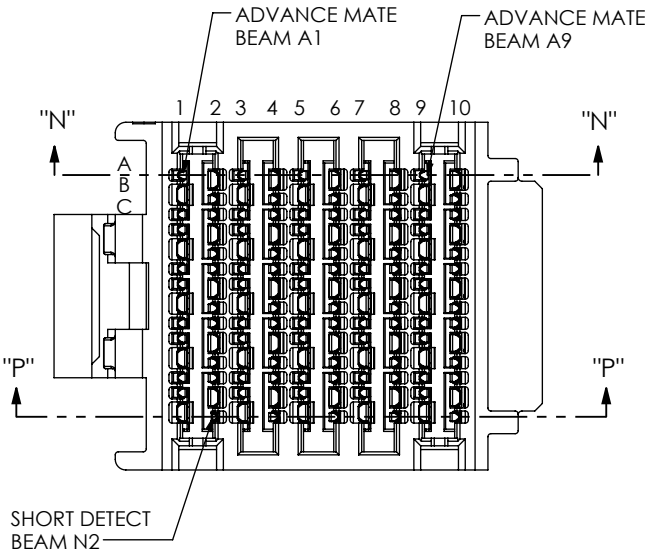
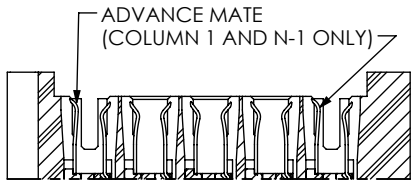
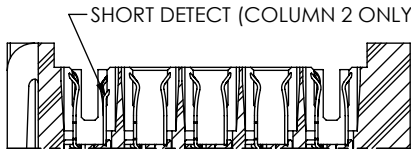


FIG 5
ADVANCED MATE AND SHORT DETECT
EBCF-X-4-10-V-2 SHOWN
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 3 & 4)
(NOT TOOLED)



SECTION "N"-"N"
SCALE 2 : 1



SECTION "P"-"P"
SCALE 2 : 1

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DESCRIPTION:
EXAMAX BACKPLANE CABLE

DWG. NO.
EBCF-X-4-XX-V-X-XX-X-X-X-X

BY: CANDY W 06/16/2017 SHEET 4 OF 6

ROW	4 PAIR PIN-OUT															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
A	LS1	GND	LS3	GND	LS5	GND	LS7	GND	LS9	GND	LS11	GND	LS13	GND	LS15	GND
B	GND	TX3+	GND	TX7+	GND	TX11+	GND	TX15+	GND	TX19+	GND	TX23+	GND	TX27+	GND	TX31+
C	TX1+	TX3-	TX5+	TX7-	TX9+	TX11-	TX13+	TX15-	TX17+	TX19-	TX21+	TX23-	TX25+	TX27-	TX29+	TX31-
D	TX1-	GND	TX5-	GND	TX9-	GND	TX13-	GND	TX17-	GND	TX21-	GND	TX25-	GND	TX29-	GND
E	GND	TX4+	GND	TX8+	GND	TX12+	GND	TX16+	GND	TX20+	GND	TX24+	GND	TX28+	GND	TX32+
F	TX2+	TX4-	TX6+	TX8-	TX10+	TX12-	TX14+	TX16-	TX18+	TX20-	TX22+	TX24-	TX26+	TX28-	TX30+	TX32-
G	TX2-	GND	TX6-	GND	TX10-	GND	TX14-	GND	TX18-	GND	TX22-	GND	TX26-	GND	TX30-	GND
H	GND	RX4-	GND	RX8-	GND	RX12-	GND	RX16-	GND	RX20-	GND	RX24-	GND	RX28-	GND	RX32-
I	RX2-	RX4+	RX6-	RX8+	RX10-	RX12+	RX14-	RX16+	RX18-	RX20+	RX22-	RX24+	RX26-	RX28+	RX30-	RX32+
J	RX2+	GND	RX6+	GND	RX10+	GND	RX14+	GND	RX18+	GND	RX22+	GND	RX26+	GND	RX30+	GND
K	GND	RX3-	GND	RX7-	GND	RX11-	GND	RX15-	GND	RX19-	GND	RX23-	GND	RX27-	GND	RX31-
L	RX1-	RX3+	RX5-	RX7+	RX9-	RX11+	RX13-	RX15+	RX17-	RX19+	RX21-	RX23+	RX25-	RX27+	RX29-	RX31+
M	RX1+	GND	RX5+	GND	RX9+	GND	RX13+	GND	RX17+	GND	RX21+	GND	RX25+	GND	RX29+	GND
N	GND	LS2	GND	LS4	GND	LS6	GND	LS8	GND	LS10	GND	LS12	GND	LS14	GND	LS16
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
WAFER	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A

4 PAIR SIGNAL MAPPING FOR -1, -2, -5 & -6 SIGNAL MAP OPTIONS

"B" WAFERS (ODD NUMBER COLUMNS)					"A" WAFERS (EVEN NUMBER COLUMNS)				
END 1			END 2		END 1			END 2	
POSITION	SYMBOL		POSITION	SYMBOL	POSITION	SYMBOL		POSITION	SYMBOL
A1	LS1	PAIR	A1	LS1	A2	GND	PAIR	M2	GND
B1	GND		N1	GND	B2	TX3+		L2	RX3+
C1	TX1+	PAIR	M1	RX1+	C2	TX3-	PAIR	K2	RX3-
D1	TX1-		L1	RX1-	D2	GND		J2	GND
E1	GND	PAIR	K1	GND	E2	TX4+	PAIR	I2	RX4+
F1	TX2+		J1	RX2+	F2	TX4-		H2	RX4-
G1	TX2-	PAIR	I1	RX2-	G2	GND	PAIR	G2	GND
H1	GND		H1	GND	H2	RX4-		F2	TX4-
I1	RX2-	PAIR	G1	TX2-	I2	RX4+	PAIR	E2	TX4+
J1	RX2+		F1	TX2+	J2	GND		D2	GND
K1	GND	PAIR	E1	GND	K2	RX3-	PAIR	C2	TX3-
L1	RX1-		D1	TX1-	L2	RX3+		B2	TX3+
M1	RX1+	PAIR	C1	TX1+	M2	GND	PAIR	A2	GND
N1	GND		B1	GND	N2	LS2		N2	LS2

ALL GROUNDS ARE COMMON AND TIED TO CABLE SHIELD

4 PAIR SIGNAL MAPPING FOR -3, -4, -7 & -8 SIGNAL MAP OPTIONS

"B" WAFERS (ODD NUMBER COLUMNS)					"A" WAFERS (EVEN NUMBER COLUMNS)				
END 1			END 2		END 1			END 2	
POSITION	SYMBOL		POSITION	SYMBOL	POSITION	SYMBOL		POSITION	SYMBOL
A1	LS1	PAIR	A1	LS1	A2	GND	PAIR	A2	GND
B1	GND		B1	GND	B2	TX3+		B2	TX3+
C1	TX1+	PAIR	C1	TX1+	C2	TX3-	PAIR	C2	TX3-
D1	TX1-		D1	TX1-	D2	GND		D2	GND
E1	GND	PAIR	E1	GND	E2	TX4+	PAIR	E2	TX4+
F1	TX2+		F1	TX2+	F2	TX4-		F2	TX4-
G1	TX2-	PAIR	G1	TX2-	G2	GND	PAIR	G2	GND
H1	GND		H1	GND	H2	RX4-		H2	RX4-
I1	RX2-	PAIR	I1	RX2-	I2	RX4+	PAIR	I2	RX4+
J1	RX2+		J1	RX2+	J2	GND		J2	GND
K1	GND	PAIR	K1	GND	K2	RX3-	PAIR	K2	RX3-
L1	RX1-		L1	RX1-	L2	RX3+		L2	RX3+
M1	RX1+	PAIR	M1	RX1+	M2	GND	PAIR	M2	GND
N1	GND		N1	GND	N2	LS2		N2	LS2

ALL GROUNDS ARE COMMON AND TIED TO CABLE SHIELD

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 EXAMAX BACKPLANE CABLE

DWG. NO.
EBCF-X-4-XX-V-X-XX-X-X-X-X

BY: CANDY W 06/16/2017 SHEET 5 OF 6

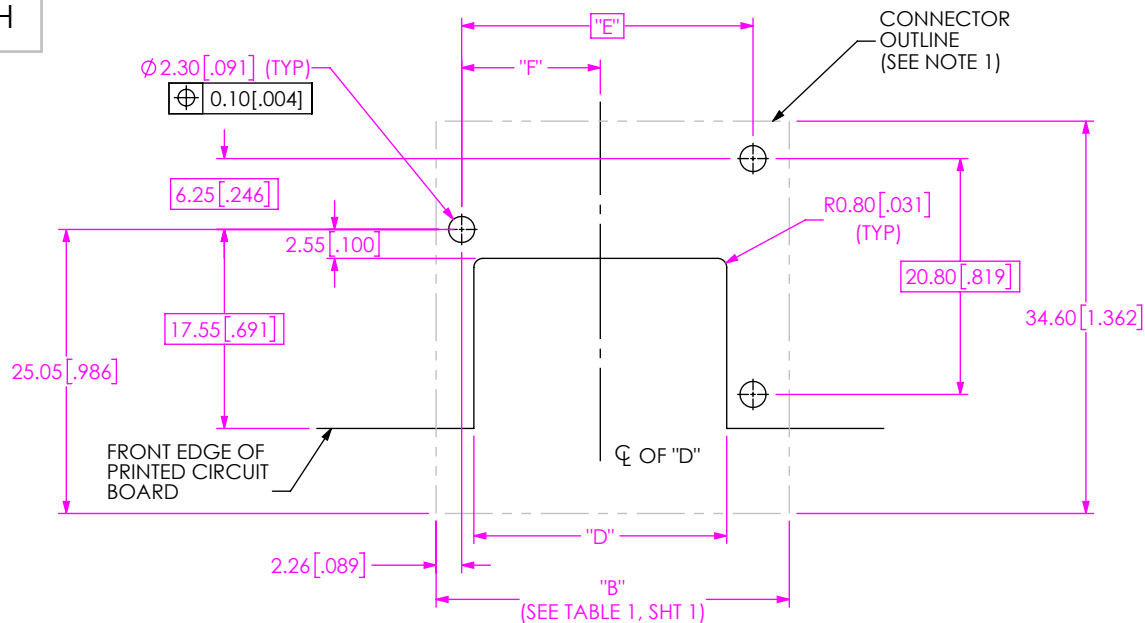


FIG 6
PCB CUTOUT FOR END 2, RIGHT GUIDANCE
EBCF-X-4-10-V-X-XX-R-X-R-X SHOWN

TABLE 3			
COLUMNS	"D"	"E"	"F"
-04	10.30 [.406]	13.70 [.539]	6.23 [.245]
-06	14.30 [.563]	17.70 [.697]	8.23 [.324]
-08	18.30 [.720]	21.70 [.854]	10.23 [.403]
-10	22.30 [.878]	25.70 [1.012]	12.23 [.481]
-12	26.30 [1.035]	29.70 [1.169]	14.23 [.560]
-14	30.30 [1.193]	33.70 [1.327]	16.23 [.639]
-16	34.30 [1.350]	37.70 [1.484]	18.23 [.718]

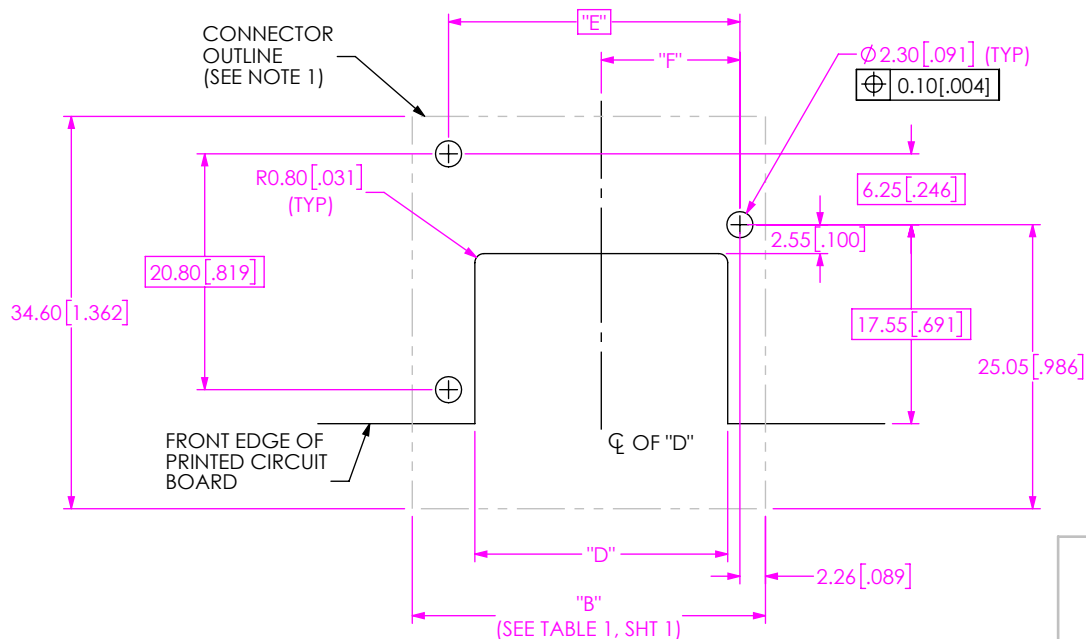


FIG 7
PCB CUTOUT FOR END 2, LEFT GUIDANCE
EBCF-X-4-10-V-X-XX-R-X-L-X SHOWN
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 6)

PCB NOTES:

1. CONNECTOR ENVELOPE DIMENSIONS. OTHER COMPONENTS PLACED ON PCB SHALL AVOID THIS ZONE.

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