

Amphenol Canada Corp - Product Change Notice (PCN)

PCN Date	DEC.10,2018
Supplier Name:	Amphenol Canada Corp.
Amphenol Canada PCN Number	PCN-C1387
Description of Change	To change top cage material from phosphor bronze to brass.
Reason for Change	To reduce the material cost.
Summary of changes between new and old part	See next page for detail change. Amphenol Part numbers remain the same.
Traceability guidelines (lot code / date code, markings, ship date...)	Date code
Last Time Buy Date	
Datasheet attached? & Filename(s)	P-U77-F131X-X001-REVD, P-U77-A161X-X00X-REVB
Qual Test data attached? & Filename(s)	

Customer Part Number	Amphenol Old Part Number	Amphenol New Part Number	PCN Effectivity Date	Samples Availability Date	Last Time Buy Date	Expected Supplier Qual Date
N/A	U77-A1612-1001	U77-A1612-1001	28-Feb-19	15-Jan-19	NA	NA
N/A	U77-A1612-3001	U77-A1612-3001	28-Feb-19	15-Jan-19	NA	NA
N/A	U77-A1613-1001	U77-A1613-1001	28-Feb-19	15-Jan-19	NA	NA
N/A	U77-A1613-3001	U77-A1613-3001	28-Feb-19	15-Jan-19	NA	NA
N/A	U77-A1613-300T	U77-A1613-300T	28-Feb-19	15-Jan-19	NA	NA
N/A	U77-A1614-1001	U77-A1614-1001	28-Feb-19	15-Jan-19	NA	NA
N/A	U77-A1614-3001	U77-A1614-3001	28-Feb-19	15-Jan-19	NA	NA
N/A	U77-A1614-300T	U77-A1614-300T	28-Feb-19	15-Jan-19	NA	NA
N/A	U77-F1313-1001	U77-F1313-1001	28-Feb-19	15-Jan-19	NA	NA
N/A	U77-F1313-3001	U77-F1313-3001	28-Feb-19	15-Jan-19	NA	NA
N/A	U77-F1313-300T	U77-F1313-300T	28-Feb-19	15-Jan-19	NA	NA
N/A	U77-F1314-3001	U77-F1314-3001	28-Feb-19	15-Jan-19	NA	NA
N/A	U77-F1314-300T	U77-F1314-300T	28-Feb-19	15-Jan-19	NA	NA

Amphenol-PCN-C1387

2018-12-10

Amphenol Information Communications
and Commercial Products



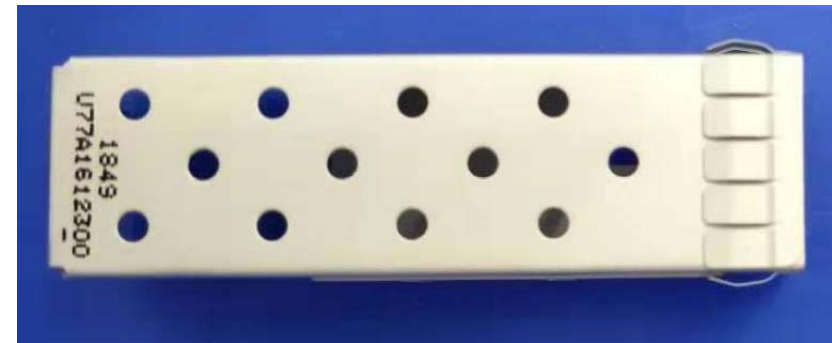
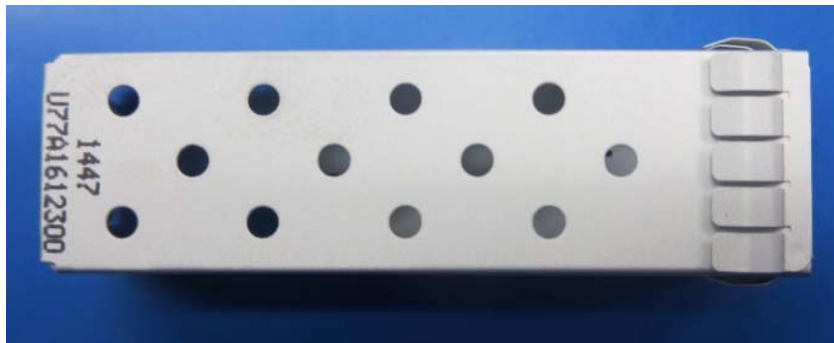
Amphenol ICC

U77-A161X-X00X & U77-F131X-X00X Improvement



Current Version

New Version



To change top cage material from phosphor bronze to brass in order to reduce the material cost. The appearance is no change after plating.

MATERIAL (RoHS COMPLIANT):

CAGE:

COPPER ALLOY.

PLATING:

OPTION 1: 100µ" [2.54 µm] MIN. BRIGHT TIN PLATING OVER 50 µ" (1.27 µm) MIN. NICKEL UNDER PLATING. (BRIGHT TIN SOLDER TEMPERATURE 230 C MAX. IN 10 SECONDS OF PEAK TIME)

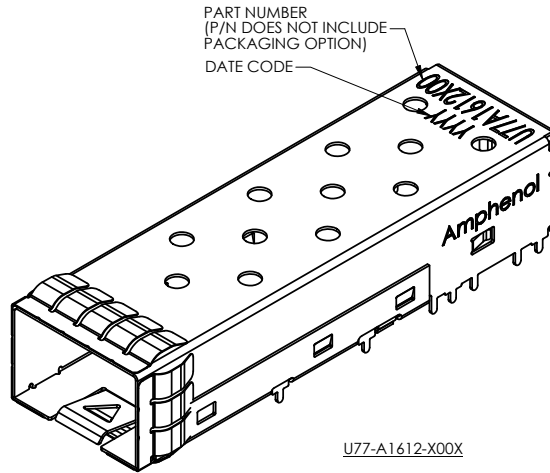
100µ" [2.54 µm] MIN. MATTE TIN PLATING OVER 50 µ" (1.27 µm) MIN. NICKEL UNDER PLATING. (MATTE TIN 245°C MAX. IN 10 SECONDS OF PEAK TIME,)

PACKAGING:

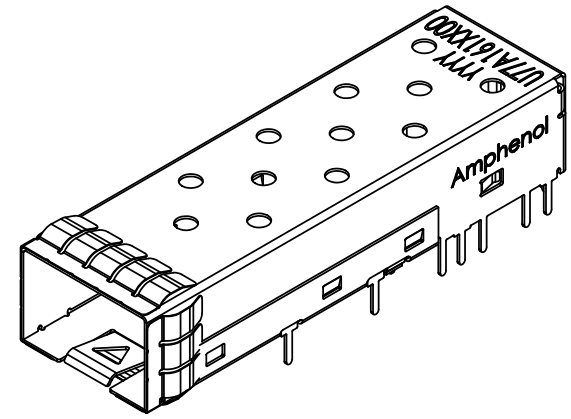
TAPE AND REEL OR TRAY PACKAGING

TEMPERATURE RANGE:

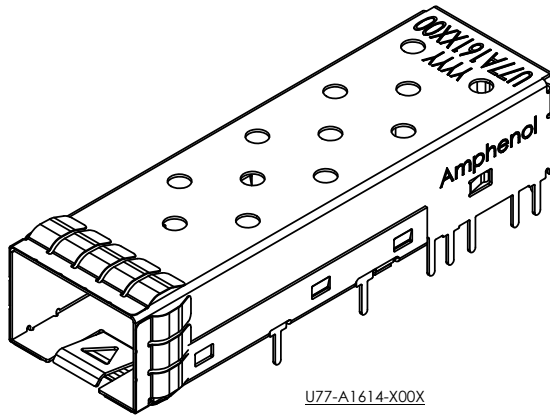
-40°C TO + 85°C



U77-A1612-X00X



U77-A1613-X00X



U77-A1614-X00X

REVISIONS				
REV.	ECN/E-R	DESCRIPTION	DATE	APPROVED
A		PROPOSAL	OCT 07,14	J.SI
B		UPDATE DESIGN FOR EMI SPRING FINGER	MAY 28,18	J.SI

AMPHENOL PART NUMBER CONFIGURATION

U77-A161X-X00X

- SOLDER TAIL HEIGHT
- 2 = 1.2mm (20 SOLDER PINS)
 - 3 = 3.2mm (20 SOLDER PINS)
 - 4 = 1.8mm (20 SOLDER PINS)

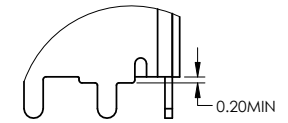
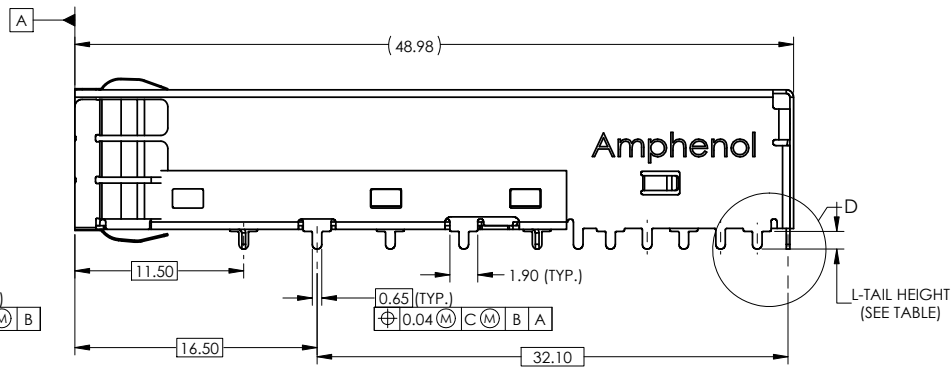
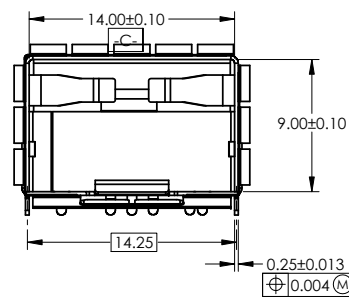
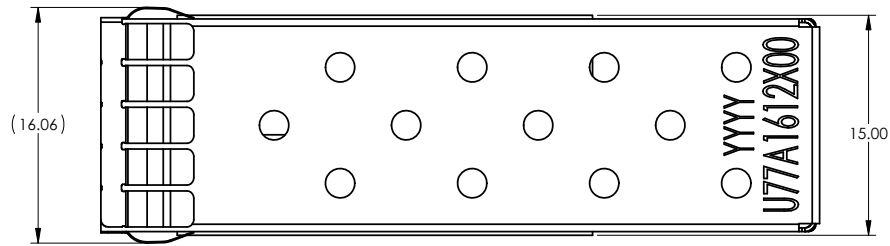
- PLATING
- 1 = BRIGHT TIN PLATING
 - 3 = MATTE TIN PLATING

- PACKAGING
- 1 = TRAY PACKAGING (SEE PAGE 5 FOR DETAILS)
 - T = TAPE & REEL PACKAGING (STANDAED CAGE ORIENTATION) (SEE PAGE 6 FOR DETAILS)
 - R = TAPE & REEL PACKAGING (STANDAED CAGE ORIENTATION) (SEE PAGE 6 FOR DETAILS)

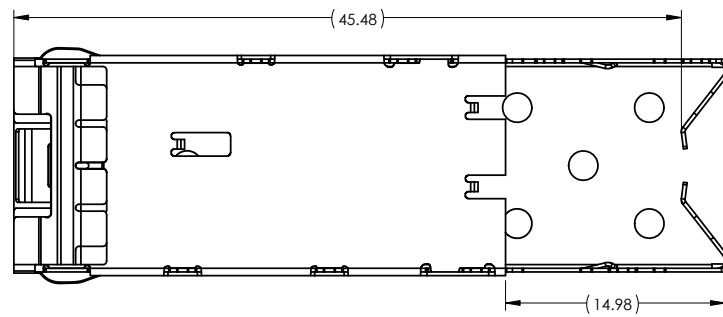
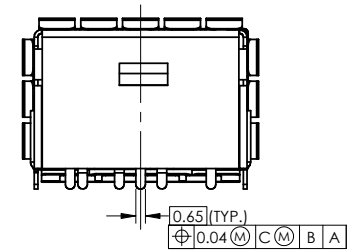
DO NOT SCALE DRAWING

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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE:		APPROVALS		DATE		Amphenol High Speed Interconnects <small>A Division of Amphenol Corp. www.amphenolhighspeed.com</small>			
DECIMALS X.X ± 0.25 X.XX ± 0.15		ANGLES ± 1°		DRAWN J.SI		ARP 03/08		TITLE	
MATERIAL AND FINISH SEE NOTE 1		DESIGNED J.SI		ARP 03/08		CHECKED		IPF SINGLE CAGE WITH SOLDER PINS	
REF.		E APPD		QA APPD		E APPD		SIZE A3	
CODE IDENT. NO. 03554		DWG APPD		SCALE 3:1		DWG. NO. P-U77-A161X-X00X		REV. B	
						PROJECT		SHEET 1 OF 7	



DETAIL D
SCALE 6 : 1



PART NUMBER	SOLDER TAIL HEIGHT(mm)
U77-A1612-X00X	1.20
U77-A1613-X00X	3.20
U77-A1614-X00X	1.80

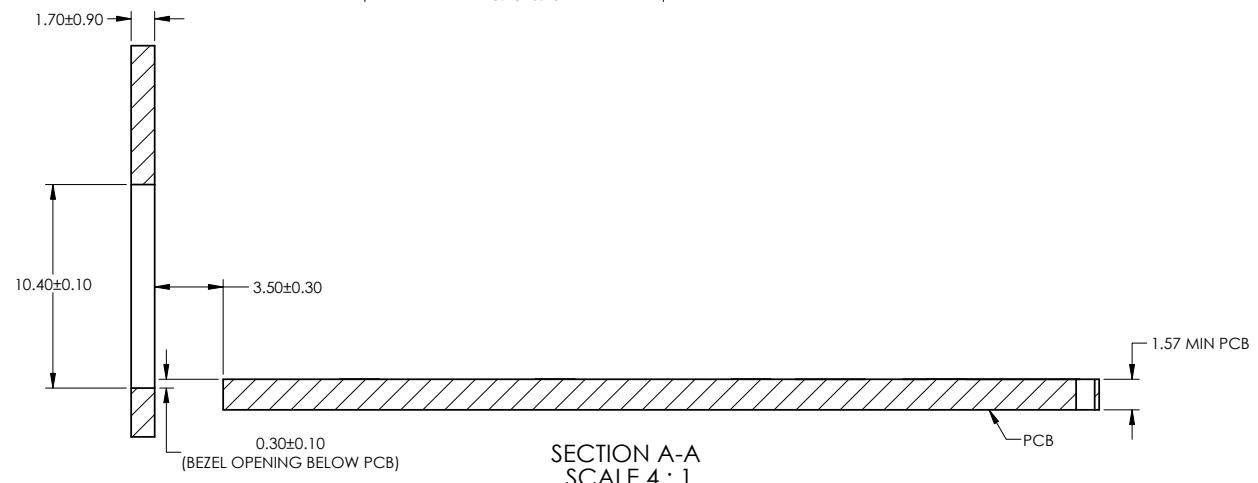
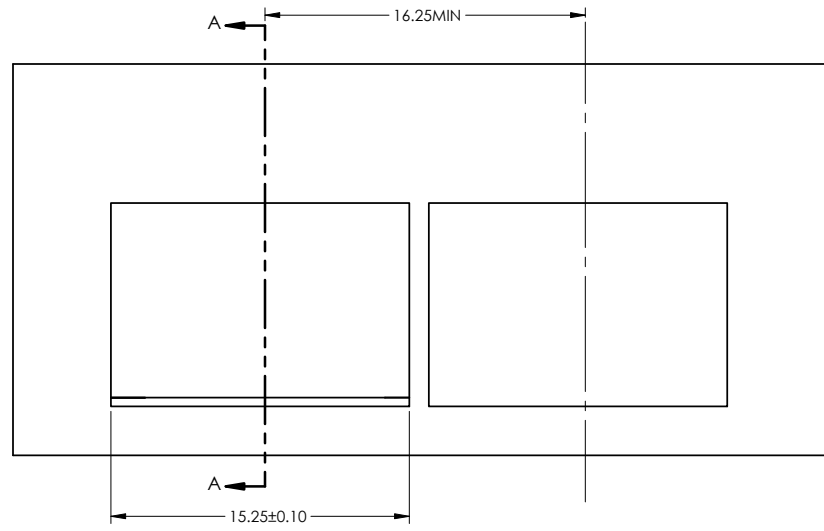
REVISIONS				
REV.	EC/N/E/R	DESCRIPTION	DATE	APPROVED
A		PROPOSAL	OCT 07,14	J.SI
B		UPDATE DESIGN FOR EMI SPRING FINGER	MAY 28,18	J.SI

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE: DECIMALS X.X ± 0.25 X.XX ± 0.15 MATERIAL AND FINISH SEE NOTE 1 REF. CODE IDENT. NO. 03554	APPROVALS	DATE	Amphenol High Speed Interconnects <small>A Division of Amphenol Corp. www.amphenolhighspeed.com</small>		
	DRAWN J.SI	ARP 03/08	TITLE		
	DESIGNED J.SI	ARP 03/08	IPF SINGLE CAGE WITH SOLDER PINS		
	CHECKED		SIZE A3 DWG. NO. P-U77-A161X-X00X REV. B		
	QA APPD		SCALE 3:1	PROJECT	SHEET 2 OF 7

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REVISIONS				
REV.	ECN/E-R	DESCRIPTION	DATE	APPROVED
A		PROPOSAL	OCT 07,14	J.SI
B		UPDATE DESIGN FOR EMI SPRING FINGER	MAY 28,18	J.SI



SECTION A-A
SCALE 4 : 1

**RECOMMENDED BEZEL DESIGN
(ONE SIDE CAGE MOUNTING)**

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DECIMALS	ANGLES	DRAWN	J.SI	ARP	03/08	TITLE	
X.X ± 0.25	± 1°	DESIGNED	J.SI	ARP	03/08	IPF SINGLE CAGE WITH SOLDER PINS	
X.XX ± 0.15		CHECKED					
MATERIAL AND FINISH		QA APPD					
SEE NOTE 1							
REF.		E APPD				SIZE	DWG. NO.
						A3	P-U77-A161X-X00X
CODE IDENT. NO.	03554	DWG APPD				SCALE	PROJECT
						3:1	
							SHEET
							3 OF 7

8 7 6 5 4 3 2 1

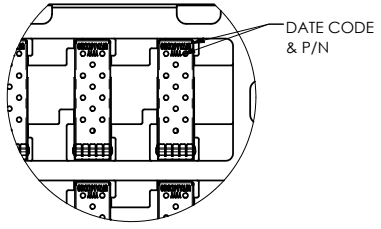
8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

REVISIONS				
REV.	ECN/E-R	DESCRIPTION	DATE	APPROVED
A		PROPOSAL	OCT 07,14	J.SI
B		UPDATE DESIGN FOR EMI SPRING FINGER	MAY 28,18	J.SI

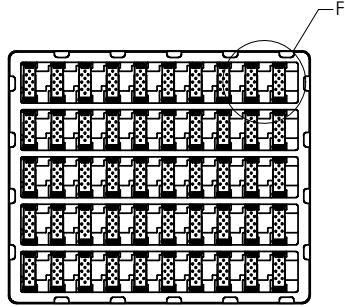
NOTES:

1. A FULLY LOADED TRAY TO CONTAIN 50 CAGES.
2. PLACE TRAYS INTO THE CARTON AS SHOWN. FULLY LOADED CARTON SHALL CONTAIN 10 TRAYS (500 SFP CAGES) PLUS ONE EMPTY TRAY ON THE TOP AS A COVER. FILL EMPTY SPACE IN THE CARTON WITH PAPER FOR ANY PARTIAL SHIPMENT.



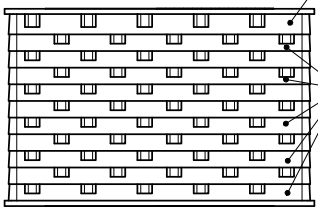
DATE CODE & P/N

DETAIL F
SCALE 1 : 2



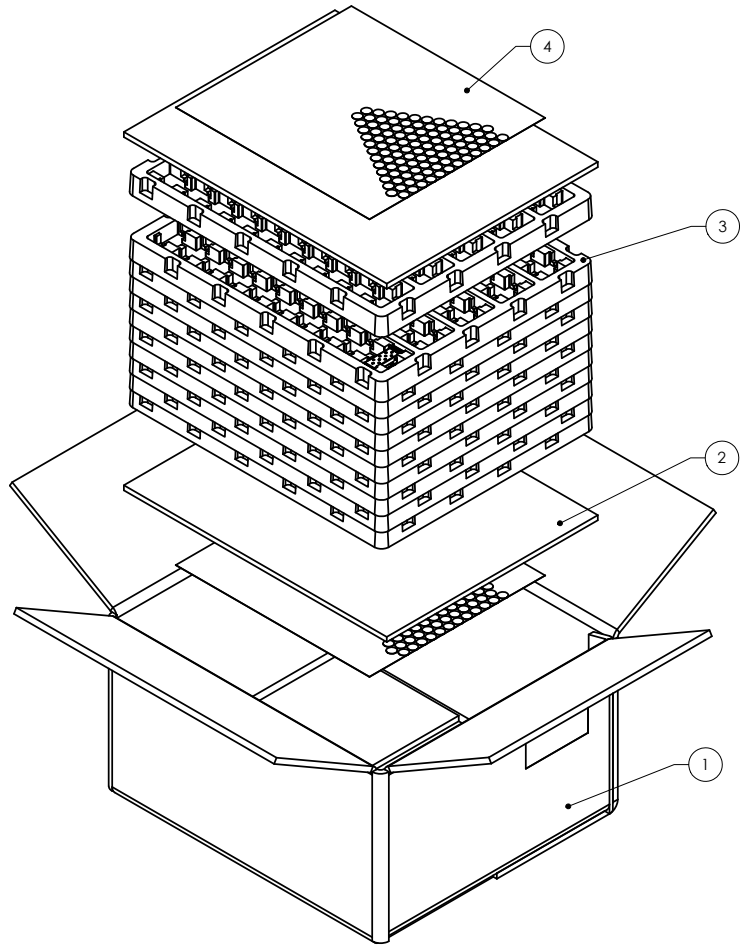
F

EMPTY TRAY



FULLY LOADED TRAYS

ITEM NO.	DESCRIPTION
4	BUBLE FILM OR PLASTIC SHEET
3	PLASTIC TRAY
2	CHIPBOARD LINER
1	CARTON MASTER



**U77-A161X-X001 SHOWN
(CAGE SHOWN FOR REF. ONLY)**

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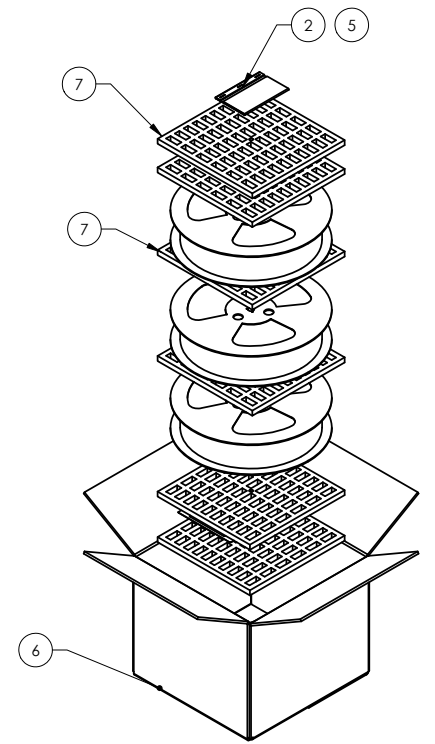
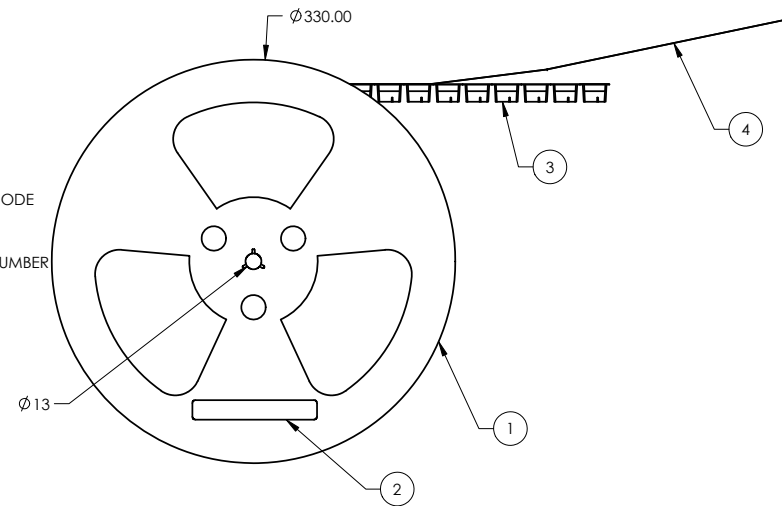
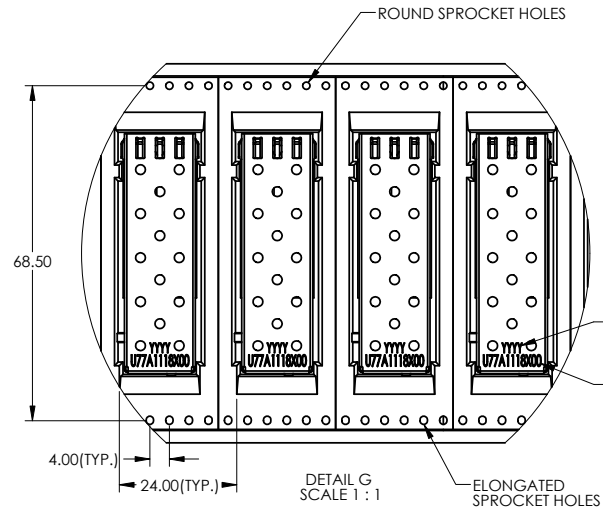
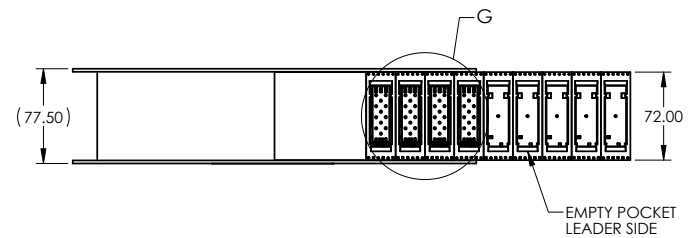
<small>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE:</small> DECIMALS ANGLES X.X ± 0.25 ± 1° X.XX ± 0.15	APPROVALS	DATE	Amphenol High Speed Interconnects <small>A Division of Amphenol Corp. www.amphenolhighspeed.com</small>	
	DRAWN J.SI	ARP 03/08		
	DESIGNED J.SI	ARP 03/08	IPF SINGLE CAGE (TRAY PACKAGING REFERENCE)	
	CHECKED			
MATERIAL AND FINISH	QA APPD		SIZE	DWG. NO.
SEE NOTE 1			A3	P-U77-A161X-X00X
REF.	E APPD		SCALE	PROJECT
CODE IDENT. NO. 03554	DWG APPD		1:10	
				REV. B
				SHEET 5 OF 7

8 7 6 5 4 3 2 1

REVISIONS				
REV.	ECN/E-R	DESCRIPTION	DATE	APPROVED
A		PROPOSAL	OCT 07,14	J.SI
B		UPDATE DESIGN FOR EMI SPRING FINGER	MAY 28,18	J.SI

NOTES:

1. A FULLY LOADED REEL TO CONTAIN 150 CAGES FOR U77-A1612-X00XX AND U77-A1614-X00X.
A FULLY LOADED REEL TO CONTAIN 130 CAGES FOR U77-A1613-X00X.
2. A FULLY LOADED CARTON SHALL CONTAIN 3 REELS.



7	FOAM INSERT
6	CARTON MASTER
5	PLASTIC BAG FOR DUST COVER
4	COVER TAPE
3	CARRIER TAPE
2	LABEL
1	PLASTIC REEL (SET)
ITEM NO.	DESCRIPTION

**U77-A161X-X00T SHOWN
(CAGE SHOWN FOR REF. ONLY)**

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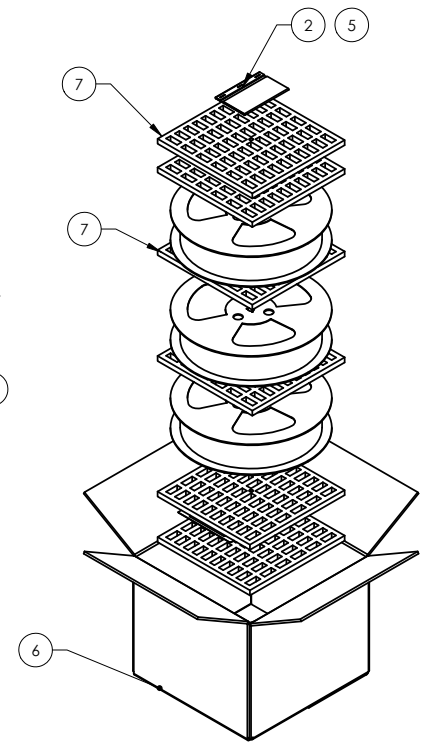
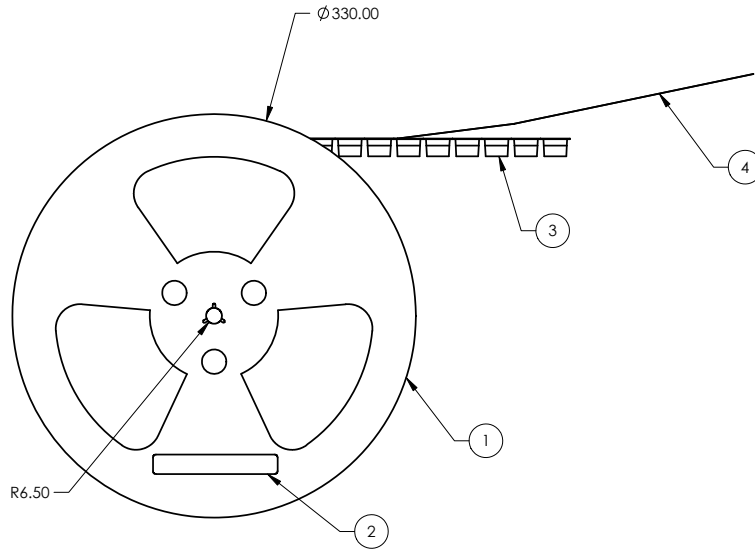
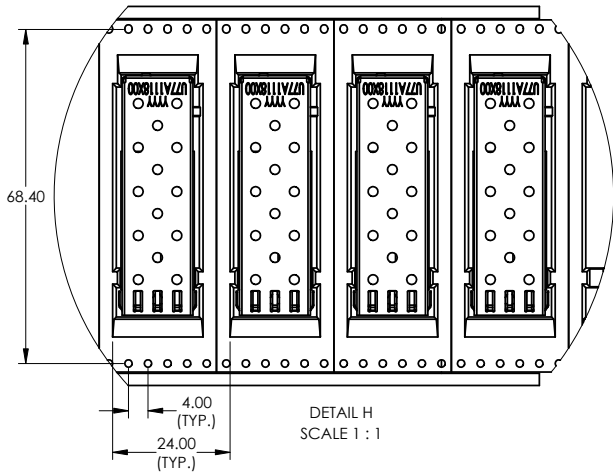
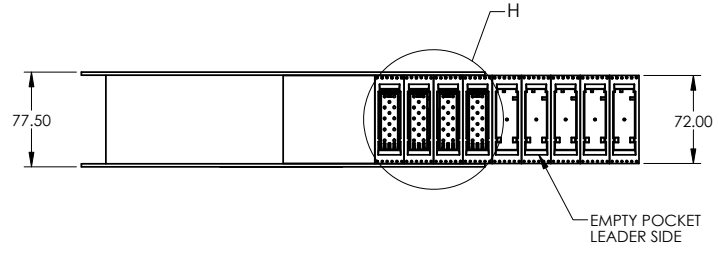
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DECIMALS	ANGLES	DRAWN	J.SI	ARP	03/08	TITLE	
X.X ± 0.25	± 1°	DESIGNED	J.SI	ARP	03/08	IPF SINGLE CAGE (T&R PACKAGING STD CAGE ORIENTATION)	
X.XX ± 0.15		CHECKED				SIZE A3	
MATERIAL AND FINISH		QA APPD				DWG. NO. P-U77-A161X-X00X	
SEE NOTE 1						REV. B	
REF.		E APPD				SCALE	3:1
CODE IDENT. NO.	03554	DWG APPD				PROJECT	
						SHEET	6 OF 7

REVISIONS				
REV.	ECN/E-R	DESCRIPTION	DATE	APPROVED
A		PROPOSAL	OCT 07,14	J.SI
B		UPDATE DESIGN FOR EMI SPRING FINGER	MAY 28,18	J.SI

NOTES:

1. A FULLY LOADED REEL TO CONTAIN 150 CAGES FOR U77-A1612-X00XX AND U77-A1614-X00X.
A FULLY LOADED REEL TO CONTAIN 130 CAGES FOR U77-A1613-X00X.
2. A FULLY LOADED CARTON SHALL CONTAIN 3 REELS.



**U77-A161X-X00R SHOWN
(CAGE SHOWN FOR REF. ONLY)**

ITEM NO.	DESCRIPTION
7	FOAM INSERT
6	CARTON MASTER
5	PLASTIC BAG FOR DUST COVER
4	COVER TAPE
3	CARRIER TAPE
2	LABEL
1	PLASTIC REEL (SET)

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	DRAWN	J.SI		
	DESIGNED	J.SI	ARP 03/08	TITLE
	SEE NOTE 1			IPF SINGLE CAGE (T&R PACKAGING REVERSED CAGE ORIENTATION)
REF.	E APPD		SIZE A3	DWG. NO. P-U77-A161X-X00X
CODE IDENT. NO.	DWG APPD		SCALE 3:1	PROJECT
				REV. B
				SHEET 7 OF 7

MATERIAL: (RoHS COMPLIANT)

CAGE:
COPPER ALLOY

PLATING:(SEE PART NUMBER FOR OPTION)
 OPTION 1:
 100u"[2.54um]MIN,BRIGHT TIN PLATING OVER
 50u"(1.27um)MIN.NICKEL UNDER PLATING.(BRIGHT TIN SOLDER
 TEMPERATURE 230°C MAX).
 OPTION 3:
 100u"[2.54um]MIN,MATTE TIN PLATING OVER
 50u"(1.27um)MIN.NICKEL UNDER PLATING.(MATTE TIN SOLDER
 TEMPERATURE 245°C MAX IN 10 SECONDS OF PEAK TIME.).
 CONFIGURATION FOR OPTIONS.

PACKAGING:
TAPE AND REEL OR TRAY PACKAGING.

TEMPERATURE RANGE:
-40°C TO +85°C



AMPHENOL PART NUMBER CONFIGURATION

U77 - F 1 3 1 X - X 0 0 X

SOLDER TAIL HEIGHT
 2 = 1.2mm (20 SOLDER PINS)
 3 = 3.2mm (20 SOLDER PINS)
 4 = 1.8mm (20 SOLDER PINS)
 5 = 2.2mm (20 SOLDER PINS)

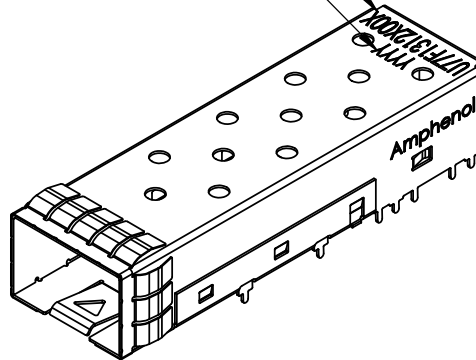
PACKAGING
 1 = TRAY PACKAGING
 T = TAPE & REEL PACKAGING

PLATING
 1 = BRIGHT TIN PLATING
 3 = MATTE TIN PLATING

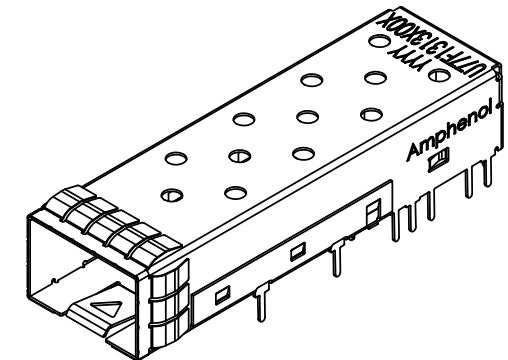
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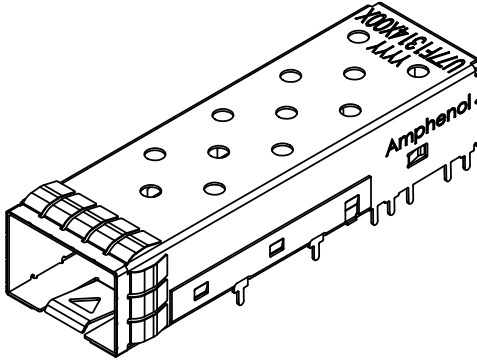
PART NUMBER
DATE CODE



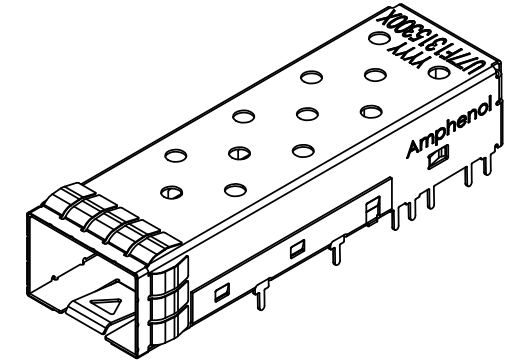
U77-F1312-X00X



U77-F1313-X00X



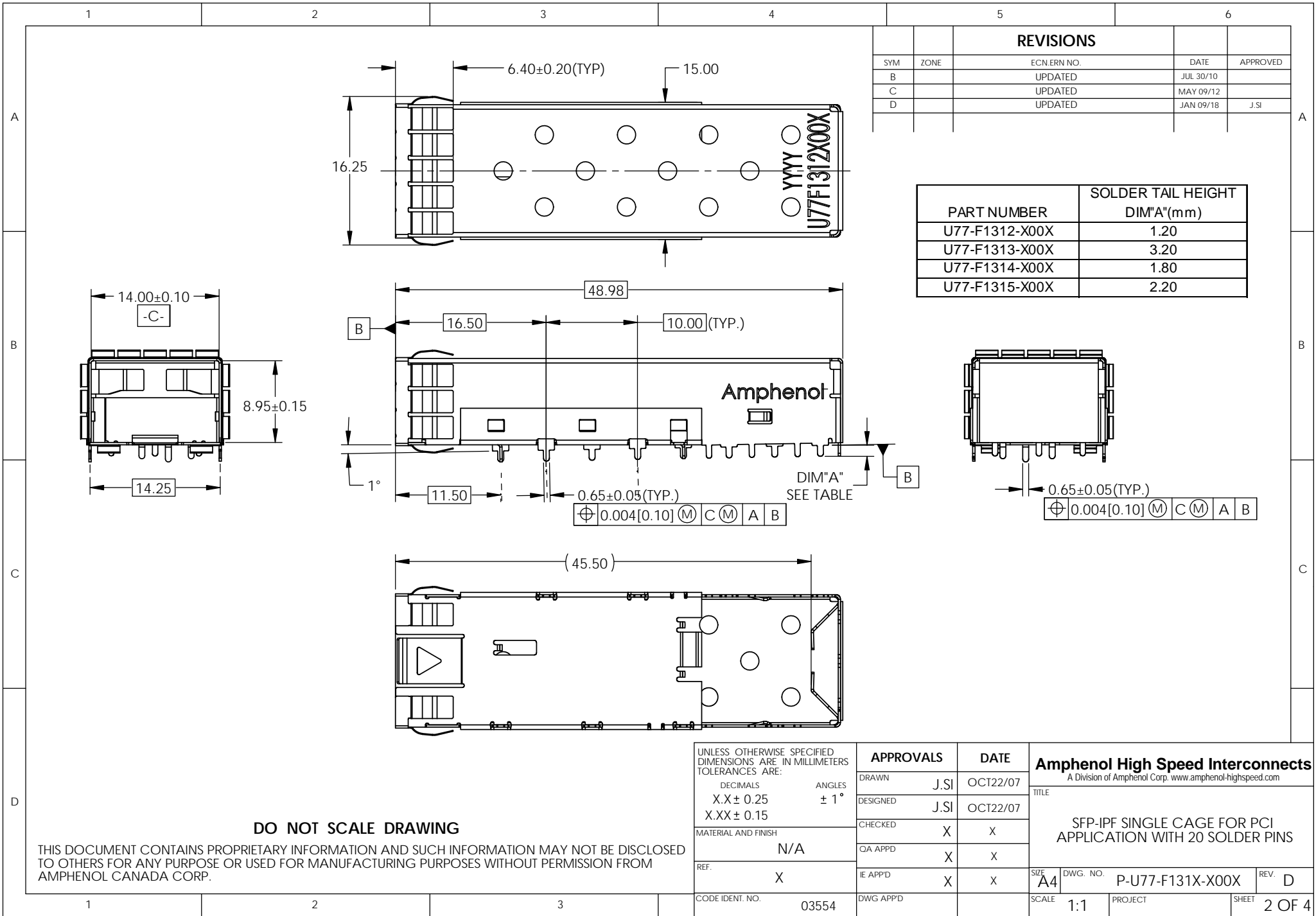
U77-F1314-X00X



U77-F1315-X00X

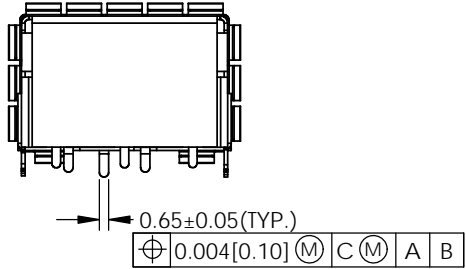
REVISIONS				
SYM	ZONE	ECN.ERN NO.	DATE	APPROVED
B		UPDATED	JUL 30/10	
C		UPDATED	MAY 09/12	
D		UPDATED	JAN 09/18	J.SI

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE: DECIMALS ANGLES X.X ± 0.25 ± 1° X.XX ± 0.15	APPROVALS		DATE		Amphenol High Speed Interconnects A Division of Amphenol Corp. www.amphenol-highspeed.com
	DRAWN	J.SI	OCT22/07	TITLE	
	DESIGNED	J.SI	OCT22/07	SFP-IPF SINGLE CAGE FOR PCI APPLICATION WITH 20 SOLDER PINS	
	CHECKED	X	X		
MATERIAL AND FINISH	N/A		QA APPD	X	
REF.	X	IE APPD	X	X	SIZE A4 DWG. NO. P-U77-F131X-X00X REV. D
CODE IDENT. NO.	03554		DWG APPD		SCALE 2:3 PROJECT SHEET 1 OF 4



REVISIONS				
SYM	ZONE	ECN.ERN NO.	DATE	APPROVED
B		UPDATED	JUL 30/10	
C		UPDATED	MAY 09/12	
D		UPDATED	JAN 09/18	J.SI

PART NUMBER	SOLDER TAIL HEIGHT DIM"A"(mm)
U77-F1312-X00X	1.20
U77-F1313-X00X	3.20
U77-F1314-X00X	1.80
U77-F1315-X00X	2.20



UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE:

DECIMALS	ANGLES
X.X ± 0.25	± 1°
X.XX ± 0.15	

MATERIAL AND FINISH: N/A

REF. X

CODE IDENT. NO. 03554

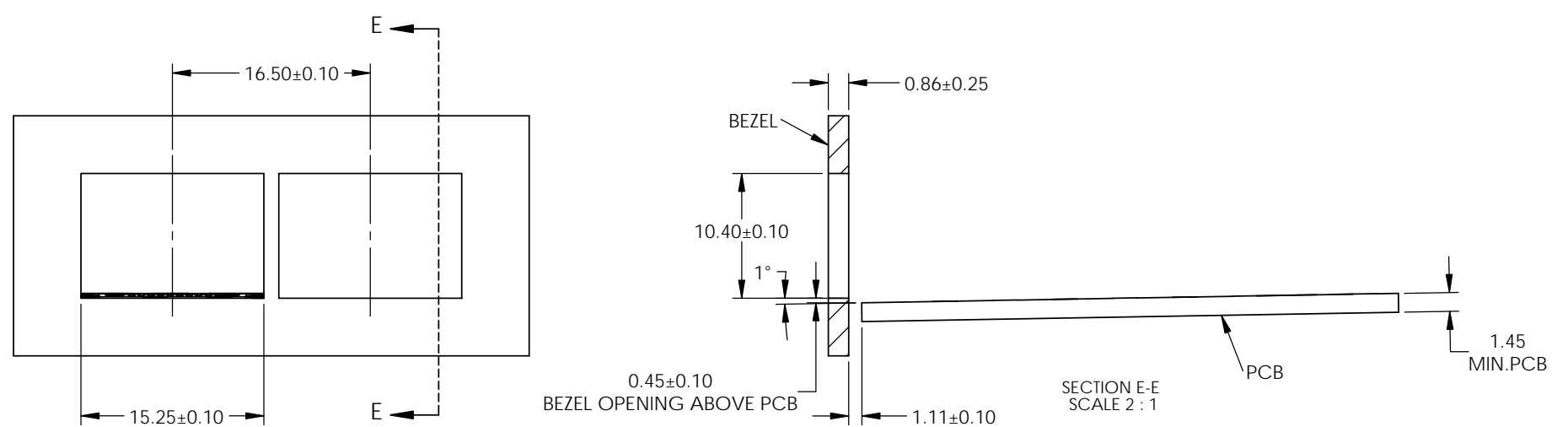
APPROVALS		DATE
DRAWN	J.SI	OCT22/07
DESIGNED	J.SI	OCT22/07
CHECKED	X	X
QA APPD	X	X
IE APPD	X	X
DWG APPD		

Amphenol High Speed Interconnects A Division of Amphenol Corp. www.amphenol-highspeed.com		
TITLE SFP-IPF SINGLE CAGE FOR PCI APPLICATION WITH 20 SOLDER PINS		
SIZE A4	DWG. NO. P-U77-F131X-X00X	REV. D
SCALE 1:1	PROJECT	SHEET 2 OF 4

DO NOT SCALE DRAWING

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REVISIONS					
SYM	ZONE	ECN.ERN NO.	DATE	APPROVED	
B		UPDATED	JUL 30/10		
C		UPDATED	MAY 09/12		
D		UPDATED	JAN 09/18	J.SI	

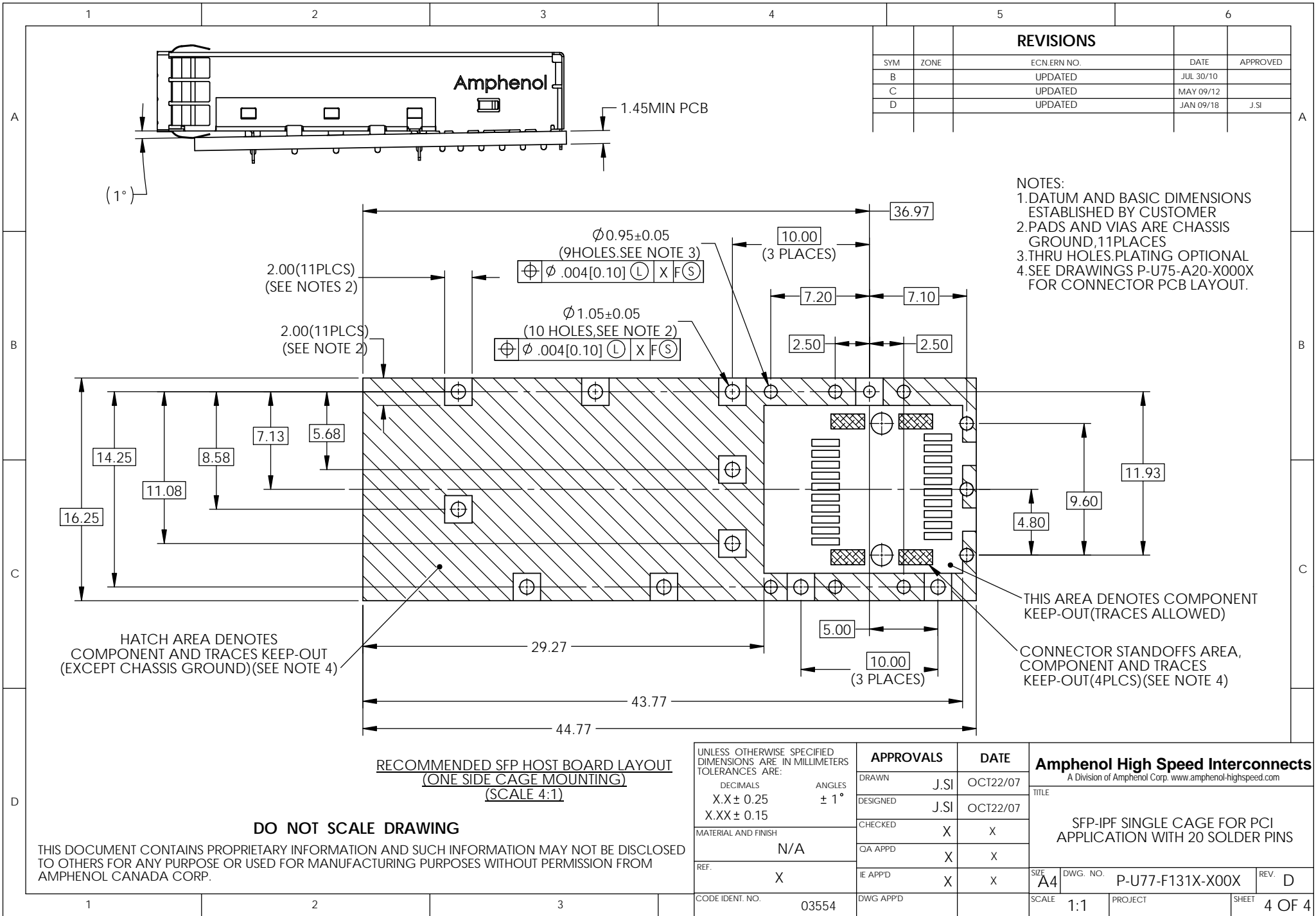


RECOMMENDED BEZEL DESIGN
(ONE SIDE CAGE MOUNTING)

DO NOT SCALE DRAWING

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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE: DECIMALS ANGLES X.X ± 0.25 ± 1° X.XX ± 0.15	APPROVALS		DATE	Amphenol High Speed Interconnects A Division of Amphenol Corp. www.amphenol-highspeed.com
	DRAWN	J.SI	OCT22/07	
	DESIGNED	J.SI	OCT22/07	
	CHECKED	X	X	
MATERIAL AND FINISH	N/A		QA APP'D	X
REF.	X	IE APP'D	X	X
CODE IDENT. NO.	03554		DWG APP'D	
SIZE	A4	DWG. NO.	P-U77-F131X-X00X	REV. D
SCALE	1:1		PROJECT	SHEET 3 OF 4



REVISIONS				
SYM	ZONE	ECN.ERN NO.	DATE	APPROVED
B		UPDATED	JUL 30/10	
C		UPDATED	MAY 09/12	
D		UPDATED	JAN 09/18	J.SI

- NOTES:
1. DATUM AND BASIC DIMENSIONS ESTABLISHED BY CUSTOMER
 2. PADS AND VIAS ARE CHASSIS GROUND, 11 PLACES
 3. THRU HOLES, PLATING OPTIONAL
 4. SEE DRAWINGS P-U75-A20-X00X FOR CONNECTOR PCB LAYOUT.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE:		APPROVALS		DATE
DECIMALS	ANGLES	DRAWN	J.SI	OCT22/07
X.X ± 0.25	± 1°	DESIGNED	J.SI	OCT22/07
X.XX ± 0.15		CHECKED	X	X
MATERIAL AND FINISH	N/A	QA APPD	X	X
REF.	X	IE APPD	X	X
CODE IDENT. NO.	03554	DWG APPD		

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TITLE			
SFP-IPF SINGLE CAGE FOR PCI APPLICATION WITH 20 SOLDER PINS			
SIZE	DWG. NO.	REV.	
A4	P-U77-F131X-X00X	D	
SCALE	PROJECT	SHEET	
1:1		4 OF 4	