

1

2

3

4

61083-AA

B

C

D

E

G

FF

AA

NO. OF POSITIONS

02

2X10

04

2X20

06

2X30

08

2X40

10

2X50

12

2X60

14

2X70

16

2X80

18

2X90

20

2X100

NOTE 10

B

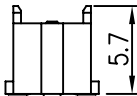
1

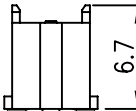
2

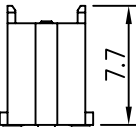
3

4









FOR COMBINATION OF MATED HEIGHT, SEE DWG. NO. 61082

G

DATE CODE

/

NOT PRINT DATE CODE

P

PRINT DATE CODE

E

PACKAGING

0

TUBE WITHOUT METAL CAP

2

T&R WITH METAL CAP

9

TUBE WITH METAL CAP

6

T&R WITHOUT METAL CAP (WITH KAPTON TAPE)

7

T&R WITH PLASTIC CAP

D

FEATURE

HOLD DOWN

0

YES

NO

2

NO

NO

NOTE

1. MATERIAL:
HOUSING: G.F. LCP, UL94-V0
TERMINAL: BRASS

2. PLATING: AS SHOWN IN TABLE.

3. SEE GS-12-547 FOR PRODUCT SPEC.

4. PACKAGING OPTION 2: NOT ALL SIZES ARE AVAILABLE. CHECK WITH FACTORY.

5. THIS PRODUCT MEETS THE EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-22-008.

6. THE HOUSING WILL WITHSTAND EXPOSURE UP TO 260° PEAK TEMPERATURE FOR 30 SECONDS IN A CONVECTION, INFRA-RED OR VAPOR PHASE REFLOW OVEN.

7. PLATING OPTION "4" IS LEADFREE ALTERNATIVE FOR OPTION "0", AND OPTION "6" IS LEADFREE ALTERNATIVE FOR OPTION "1".

8. HIGH PRECISION COPLANARITY IS AVAILABLE FOR 2X80 TO 2X100 POS, ALL HEIGHTS. PLS REFER TO PRINT 10069525.

9. THE P/N 61083-***** OR 61083-*****LF NOT PRINT DATE CODE.
THE P/N 61083-*****P OR 61083-*****PLF NEED PRINT DATE CODE.

10. POSITION 2X10 TYPE ONLY APPLY TO PLUG 1.
PACKAGING WITH METAL CAP AND PLASTIC CAP DOES NOT APPLY TO 2X10 POSITION.

11. KAPTON TAPE ONLY APPLY TO POSITION 2X10~2X20.

C

PLATING: CONTACT AREA / SOLDER TAIL AREA

FF

0

GOLD 0.2um MIN. / TIN LEAD 2.5um MIN
NICKEL UNDERPLATE OVERALL 1.27um MIN

NONE

1

GOLD FLASH (0.1um MIN) OVER
PALLADIUM-NICKEL 0.76um MIN / TIN LEAD 2.5um MIN
NICKEL UNDERPLATE OVERALL 1.27um.

NONE

4

GOLD 0.2um MIN / PURE MATT TIN 2.5um MIN
NICKEL UNDERPLATE OVERALL 1.27um. (LEADFREE PLATING)

LF

5

GOLD 0.38um MIN / MATT PURE TIN 2.5um MIN
NICKEL UNDERPLATE OVERALL 1.27um MIN (LEADFREE PLATING)

LF

6

GOLD FLASH (0.1um MIN) OVER PALLADIUM-NICKEL
0.76um MIN / PURE MATT TIN 2.5um MIN
NICKEL UNDERPLATE OVERALL 1.27um. (LEADFREE PLATING)

LF

9

GOLD 0.2um MIN / GOLD 0.05um MIN
NICKEL UNDERPLATE OVERALL 1.27um. (LEADFREE PLATING)

LF

spec ref

tolerance std

TOLERANCES UNLESS OTHERWISE SPECIFIED

surface

linear

0.X

±0.2

0.XX

±0.15

0.XXX

±0.10

angular

0°

±2°

dr

Guomin Sun

2014-10-21

eng

Guomin Sun

2014-10-21

chr

ZK Hu

2014-10-21

appr

Feagle Pan

2014-10-21

projection



mm

size

A3

scale

3:1

ecn no

rel level

RELEASE

product family

Bergstak

surface

linear

0.X

±0.2

0.XX

±0.15

0.XXX

±0.10

angular

0°

±2°

dr

Guomin Sun

2014-10-21

eng

Guomin Sun

2014-10-21

chr

ZK Hu

2014-10-21

appr

Feagle Pan

2014-10-21

projection



mm

size

A3

scale

3:1

ecn no

rel level

RELEASE

product family

Bergstak

surface

linear

0.X

±0.2

0.XX

±0.15

0.XXX

±0.10

angular

0°

±2°

dr

Guomin Sun

2014-10-21

eng

Guomin Sun

2014-10-21

chr

ZK Hu

2014-10-21

appr

Feagle Pan

2014-10-21

projection



mm

size

A3

scale

3:1

ecn no

rel level

RELEASE

product family

Bergstak

surface

linear

0.X

±0.2

0.XX

±0.15

0.XXX

±0.10

angular

0°

±2°

dr

Guomin Sun

2014-10-21

eng

Guomin Sun

2014-10-21

chr

ZK Hu

2014-10-21

appr

Feagle Pan

2014-10-21

projection



mm

size

A3

scale

3:1

ecn no

rel level

RELEASE

product family

Bergstak

surface

linear

0.X

±0.2

0.XX

±0.15

0.XXX

±0.10

angular

0°

±2°

dr

Guomin Sun

2014-10-21

eng

Guomin Sun

2014-10-21

chr

ZK Hu

2014-10-21

appr

Feagle Pan

2014-10-21

projection



mm

size

A3

scale

3:1

ecn no

rel level

RELEASE

product family

Bergstak

surface

linear

0.X

±0.2

0.XX

±0.15

0.XXX

±0.10

angular

0°

±2°

dr

Guomin Sun

2014-10-21

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Guomin Sun

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appr

Feagle Pan

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projection



mm

size

A3

scale

3:1

ecn no

rel level

RELEASE

product family

Bergstak

surface

linear

0.X

±0.2

0.XX

±0.15

0.XXX

±0.10

angular

0°

±2°

dr

Guomin Sun

2014-10-21

eng

Guomin Sun

2014-10-21

chr

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2014-10-21

appr

Feagle Pan

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projection



mm

size

A3

scale

3:1

ecn no

rel level

RELEASE

product family

Bergstak

surface

linear

0.X

±0.2

0.XX

±0.15

0.XXX

±0.10

angular

0°

±2°

dr

Guomin Sun

2014-10-21

eng

Guomin Sun

2014-10-21

chr

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Feagle Pan

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A3

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3:1

ecn no

rel level

RELEASE

product family

Bergstak

surface

linear

0.X

±0.2

0.XX

±0.15

0.XXX

±0.10

angular

0°

±2°

dr

Guomin Sun

2014-10-21

eng

Guomin Sun

2014-10-21

chr

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2014-10-21

appr

Feagle Pan

2014-10-21

projection



mm

size

A3

scale

3:1

ecn no

rel level

RELEASE

product family

Bergstak

surface

linear

0.X

±0.2

0.XX

±0.15

0.XXX

±0.10

angular

0°

±2°

dr

Guomin Sun

2014-10-21

eng

Guomin Sun

2014-10-21

chr

ZK Hu

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appr

Feagle Pan

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mm

size

A3

scale

3:1

ecn no

rel level

RELEASE

product family

Bergstak

surface

linear

0.X

±0.2

0.XX

±0.15

0.XXX

±0.10

angular

0°

±2°

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Guomin Sun

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Guomin Sun

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chr

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size

A3

scale

3:1

ecn no

rel level

RELEASE

product family

Bergstak

surface

linear

0.X

±0.2

0.XX

±0.15

0.XXX

±0.10

angular

0°

±2°

dr

Guomin Sun

2014-10-21

eng

Guomin Sun

2014-10-21

chr

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appr

Feagle Pan

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size

A3

scale

3:1

ecn no

rel level

RELEASE

product family

Bergstak

surface

linear

0.X

±0.2

0.XX

±0.15

0.XXX

±0.10

angular

0°

±2°

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chr

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projection



mm

size

A3

scale

3:1

ecn no

rel level

RELEASE

product family

Bergstak

surface

linear

0.X

±0.2

0.XX

±0.15

0.XXX

±0.10

angular

0°

±2°

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Guomin Sun

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eng

Guomin Sun

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chr

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appr

Feagle Pan

2014-10-21

projection



mm

size

A3

scale

3:1

ecn no

rel level

RELEASE

product family

Bergstak

surface

linear

0.X

±0.2

0.XX

±0.15

0.XXX

±0.10

angular

0°

±2°

dr

Guomin Sun

2014-10-21

eng

Guomin Sun

2014-10-21

chr

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appr

Feagle Pan

2014-10-21

projection



mm

size

A3

scale

3:1

ecn no

rel level

RELEASE

product family

Bergstak

surface

linear

0.X

±0.2

0.XX

±0.15

0.XXX

±0.10

angular

0°

±2°

dr

Guomin Sun

2014-10-21

eng

Guomin Sun

2014-10-21

chr

ZK Hu

2014-10-21

appr

Feagle Pan

2014-10-21

projection



mm

size

A3

scale

3:1

ecn no

rel level

RELEASE

product family

Bergstak

surface

linear

0.X

±0.2

0.XX

±0.15

0.XXX

±0.10

angular

0°

±2°

dr

Guomin Sun

2014-10-21

eng

Guomin Sun

2014-10-21

chr

ZK Hu

2014-10-21

appr

Feagle Pan

2014-10-21

projection



mm

size

A3

scale

3:1

ecn no

rel level

RELEASE

product family

Bergstak

surface

linear

0.X

±0.2

0.XX

±0.15

0.XXX

±0.10

angular

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±2°

dr

Guomin Sun

2014-10-21

eng

Guomin Sun

2014-10-21

chr

ZK Hu

2014-10-21

appr

Feagle Pan

2014-10-21

projection



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size

A3

scale

3:1

ecn no

rel level

RELEASE

product family

Bergstak

surface

linear

0.X

±0.2

0.XX

±0.15

0.XXX

±0.10

angular

0°

±2°

dr

Guomin Sun

2014-10-21

eng

Guomin Sun

2014-10-21

chr

ZK Hu

2014-10-21

appr

Feagle Pan

2014-10-21

projection



mm

size

A3

scale

3:1

ecn no

rel level

RELEASE

product family

Bergstak

surface

linear

0.X

±0.2

0.XX

±0.15

0.XXX

±0.10

angular

0°

±2°

dr

Guomin Sun

2014-10-21

eng

Guomin Sun

2014-10-21

chr

ZK Hu

2014-10-21

appr

Feagle Pan

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3:1

ecn no

rel level

RELEASE

product family

Bergstak

surface

linear

0.X

±0.2

0.XX

±0.15

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angular

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±2°

dr

Guomin Sun

2014-10-21

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Guomin Sun

2014-10-21

chr

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appr

Feagle Pan

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A3

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3:1

ecn no

rel level

RELEASE

product family

Bergstak

surface

linear

0.X

±0.2

0.XX

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±2°

dr

Guomin Sun

2014-10-21

eng

Guomin Sun

2014-10-21

chr

ZK Hu

2014-10-21

appr

Feagle Pan

2014-10-21

projection



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A3

scale

3:1

ecn no

rel level

RELEASE

product family

Bergstak

surface

linear

0.X

±0.2

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angular

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±2°

dr

Guomin Sun

2014-10-21

eng

Guomin Sun

2014-10-21

chr

ZK Hu

2014-10-21

appr

Feagle Pan

2014-10-21

projection



mm

size

A3

scale

3:1

ecn no

rel level

RELEASE

product family

Bergstak

surface

linear

0.X

±0.2

0.XX

±0.15

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±0.10

angular

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±2°

dr

Guomin Sun

2014-10-21

eng

Guomin Sun

2014-10-21

chr

ZK Hu

2014-10-21

appr

Feagle Pan

2014-10-21

projection



mm

size

A3

scale

3:1

ecn no

rel level

RELEASE

product family

Bergstak

surface

linear

0.X

±0.2

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±0.15

0.XXX

±0.10

angular

0°

±2°

dr

Guomin Sun

2014-10-21

eng

Guomin Sun

2014-10-21

chr

ZK Hu

2014-10-21

appr

Feagle Pan

2014-10-21

projection



mm

size

A3

scale

3:1

ecn no

rel level

RELEASE

product family

Bergstak

surface

linear

0.X

±0.2

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±0.15

0.XXX

±0.10

angular

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±2°

dr

Guomin Sun

2014-10-21

eng

Guomin Sun

2014-10-21

chr

ZK Hu

2014-10-21

appr

Feagle Pan

2014-10-21

projection



mm

size

A3

scale

3:1

ecn no

rel level

RELEASE

product family

Bergstak

surface

linear

0.X

±0.2

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±0.15

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angular

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±2°

dr

Guomin Sun

2014-10-21

eng

Guomin Sun

2014-10-21

chr

ZK Hu

2014-10-21

appr

Feagle Pan

2014-10-21

projection



mm

size

A3

scale

3:1

ecn no

rel level

RELEASE

product family

Bergstak

surface

linear

0.X

±0.2

0.XX

±0.15

0.XXX

±0.10

angular

0°

±2°

dr

Guomin Sun

2014-10-21

eng

Guomin Sun

2014-10-21

chr

ZK Hu

2014-10-21

appr

Feagle Pan

2014-10-21

projection



mm

size

A3

scale

3:1

ecn no

rel level

RELEASE

product family

Bergstak

surface

linear

0.X

±0.2

0.XX

±0.15

0.XXX

±0.10

angular

0°

±2°

dr

Guomin Sun

2014-10-21

eng

Guomin Sun

2014-10-21

chr

ZK Hu

2014-10-21

appr

Feagle Pan

2014-10-21

projection



mm

size

A3

scale

3:1

ecn no

rel level

RELEASE

product family

Bergstak

surface

linear

0.X

±0.2

0.XX

±0.15

0.XXX

±0.10

angular

0°

±2°

dr

Guomin Sun

2014-10-21

eng

Guomin Sun

2014-10-21

chr

ZK Hu

2014-10-21

appr

Feagle Pan

2014-10-21

projection



mm

size

A3

scale

3:1

ecn no

rel level

RELEASE

product family

Bergstak

surface

linear

0.X

±0.2

0.XX

±0.15

0.XXX

±0.10

angular

0°

±2°

dr

Guomin Sun

2014-10-21

eng

Guomin Sun

2014-10-21

chr

ZK Hu

2014-10-21

appr

Feagle Pan

2014-10-21

projection



mm

size

A3

scale

3:1

ecn no

rel level

RELEASE

product family

Bergstak

surface

linear

0.X

±0.2

0.XX

±0.15

0.XXX

±0.10

angular

0°

±2°

dr

Guomin Sun

2014-10-21

eng

Guomin Sun

2014-10-21

chr

ZK Hu

2014-10-21

appr

Feagle Pan

2014-10-21

projection



mm

size

A3

scale

3:1

ecn no

rel level

RELEASE

product family

Bergstak

surface

linear

0.X

±0.2

0.XX

±0.15

0.XXX

±0.10

angular

0°

±2°

dr

Guomin Sun

2014-10-21

eng

Guomin Sun

2014-10-21

chr

ZK Hu

2014-10-21

appr

Feagle Pan

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projection



mm

size

A3

scale

3:1

ecn no

rel level

RELEASE

product family

Bergstak

surface

linear

0.X

±0.2

0.XX

±0.15

0.XXX

±0.10

angular

0°

±2°

dr

Guomin Sun

2014-10-21

eng

Guomin Sun

2014-10-21

chr

ZK Hu

2014-10-21

appr

Feagle Pan

2014-10-21

projection



mm

size

A3

scale

3:1

ecn no

rel level

RELEASE

product family

Bergstak

surface

linear

0.X

±0.2

0.XX

±0.15

0.XXX

±0.10

angular

0°

±2°

dr

Guomin Sun

2014-10-21

eng

Guomin Sun

2014-10-21

chr

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appr

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projection



mm

size

A3

scale

3:1

ecn no

rel level

RELEASE

product family

Bergstak

surface

linear

0.X

±0.2

0.XX

±0.15

0.XXX

±

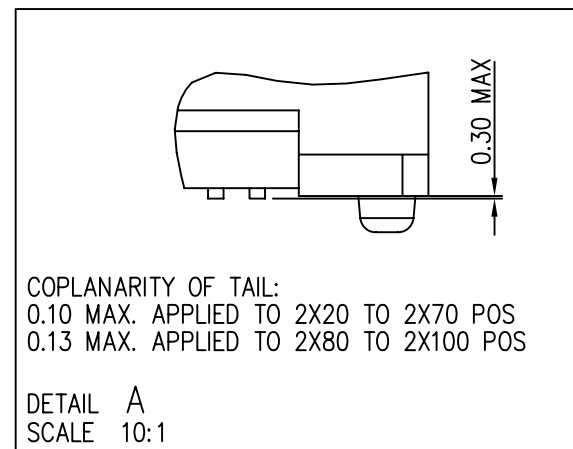
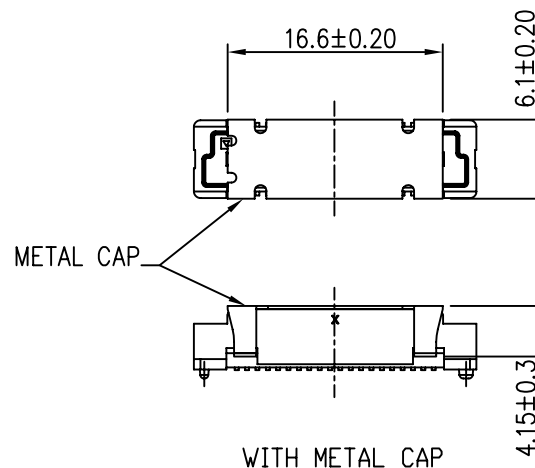
1

2

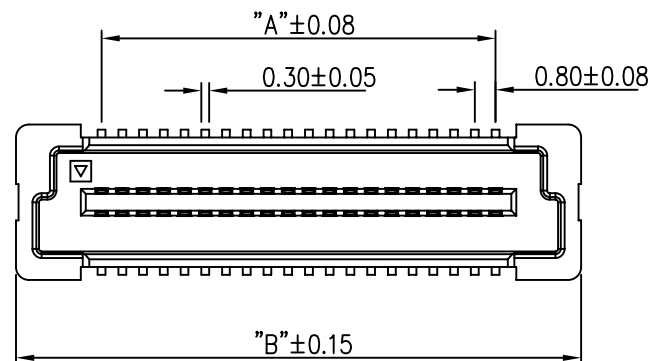
3

4

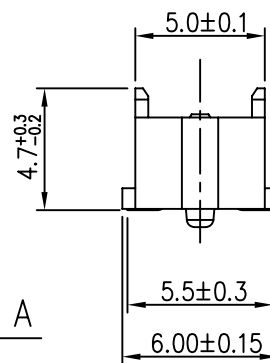
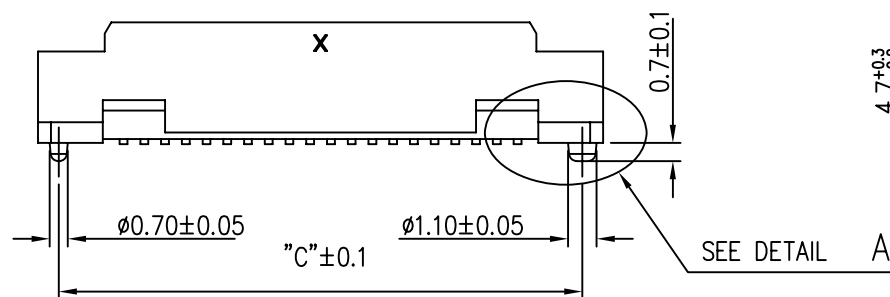
PRODUCT NO.	NO. OF POSITION	DIMENSION		
		A	B	C
61083-021***	2X10	7.2	13.8	12.2
61083-041***	2X20	15.2	21.8	20.2
61083-061***	2X30	23.2	29.8	28.2
61083-081***	2X40	31.2	37.8	36.2
61083-101***	2X50	39.2	45.8	44.2
61083-121***	2X60	47.2	53.8	52.2
61083-141***	2X70	55.2	61.8	60.2
61083-161***	2X80	63.2	69.8	68.2
61083-181***	2X90	71.2	77.8	76.2
61083-201***	2X100	79.2	85.8	84.2



B



C



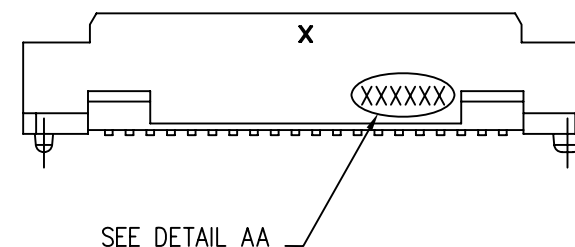
DATE CODE: XXXXXX

DAY(01~31)

MONTH(01~12)

YEAR(00~99)

DETAIL AA



PLUG 1

dr	Guomin Sun	2014-10-21	projection	mm	size	A3	scale	3:1
eng	Guomin Sun	2014-10-21			ecn no			
chr	ZK Hu	2014-10-21			product family	Bergstak	rel level	RELEASE
appr	Feagle Pan	2014-10-21						
FCI		title			BERGSTAK 0.8mm BTB		dwg no	
www.fci.com		cat. no.			61083		rev	
					Product - Customer drw		sheet 2 of 6	

1

2

3

4

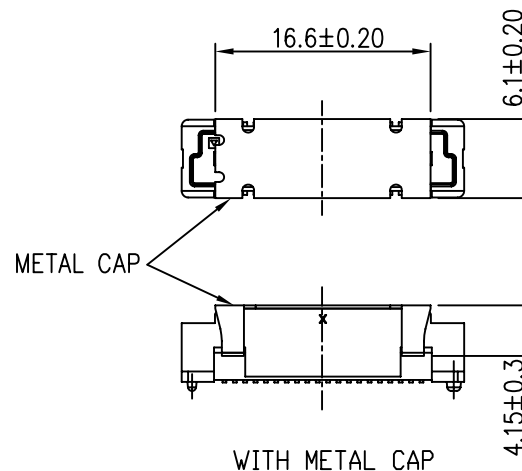
1

2

3

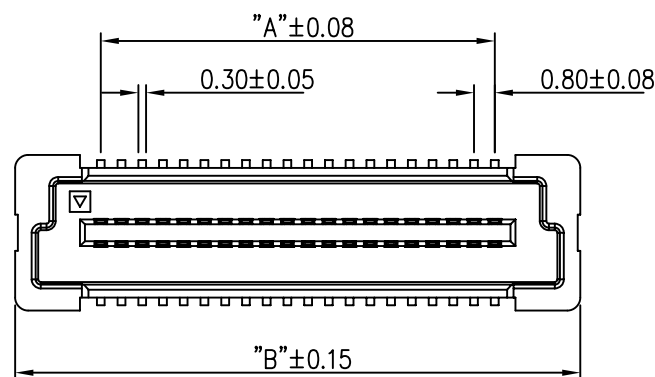
4

PRODUCT NO.	NO. OF POSITION	DIMENSION		
		A	B	C
61083-042***	2X20	15.2	21.8	20.2
61083-062***	2X30	23.2	29.8	28.2
61083-082***	2X40	31.2	37.8	36.2
61083-102***	2X50	39.2	45.8	44.2
61083-122***	2X60	47.2	53.8	52.2
61083-142***	2X70	55.2	61.8	60.2
61083-162***	2X80	63.2	69.8	68.2
61083-182***	2X90	71.2	77.8	76.2
61083-202***	2X100	79.2	85.8	84.2



COPLANARITY OF TAIL
0.10 MAX. APPLIED TO 2X20 TO 2X70 POS
0.13 MAX. APPLIED TO 2X80 TO 2X100 POS

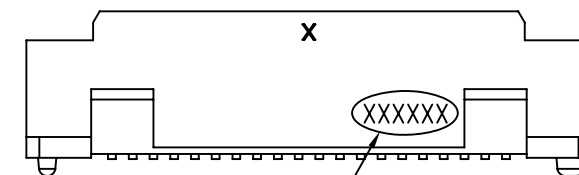
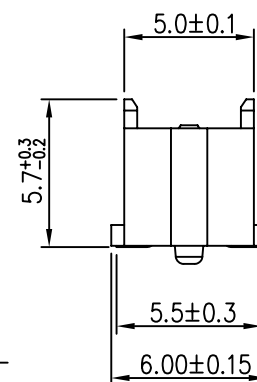
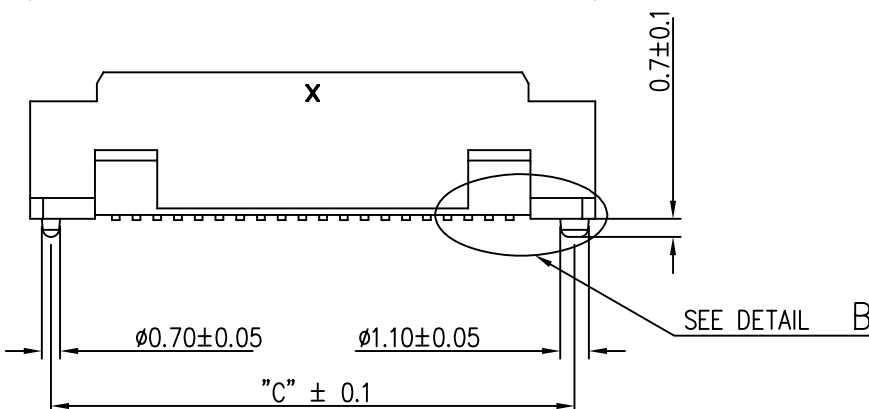
DETAIL B
SCALE 10:1



DATE CODE: XXXXXX

DAY(01~31)
MONTH(01~12)
YEAR(00~99)

DETAIL BB



SEE DETAIL BB

PLUG 2

dr	Guomin Sun	2014-10-21	projection 	mm 	size	A3	scale	3:1		
eng	Guomin Sun	2014-10-21			ecn no	RELEASE				
chr	ZK Hu	2014-10-21			rel level					
appr	Feagle Pan	2014-10-21	product family	Bergstak	-					
			title		BERGSTAK 0.8mm BTB PLUG ASSY		dwg no	61083	rev	A0
www.fci.com		cat. no.	-	Product - Customer drw				sheet 3 of 6		

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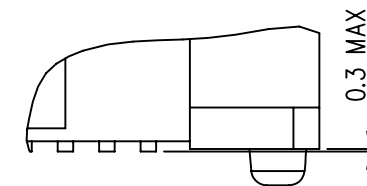
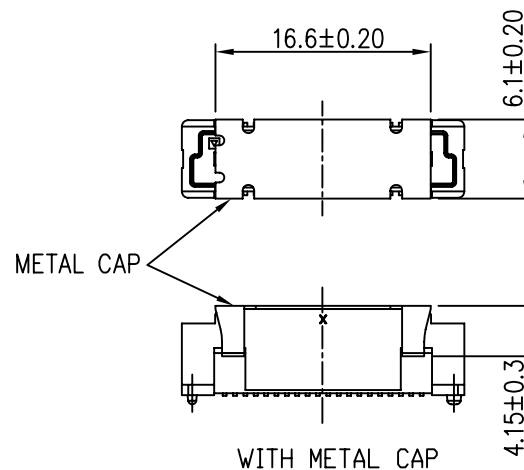
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4

PRODUCT NO.	NO. OF POSITION	DIMENSION		
		A	B	C
61083-043***	2X20	15.2	21.8	20.2
61083-063***	2X30	23.2	29.8	28.2
61083-083***	2X40	31.2	37.8	36.2
61083-103***	2X50	39.2	45.8	44.2
61083-123***	2X60	47.2	53.8	52.2
61083-143***	2X70	55.2	61.8	60.2
61083-163***	2X80	63.2	69.8	68.2
61083-183***	2X90	71.2	77.8	76.2
61083-203***	2X100	79.2	85.8	84.2



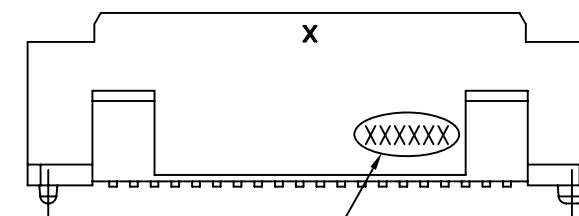
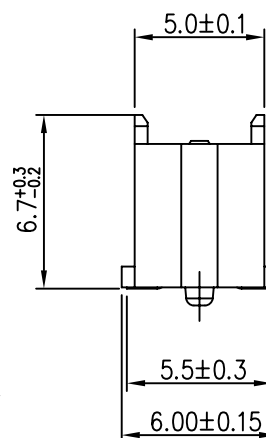
COPLANARITY OF TAIL:
0.10 MAX. APPLIED TO 2X20 TO 2X70 POS
0.13 MAX. APPLIED TO 2X80 TO 2X100 POS

DETAIL C
SCALE 10:1

DATE CODE: XXXXXX

DAY(01~31)
MONTH(01~12)
YEAR(00~99)

DETAIL CC



SEE DETAIL CC

PLUG 3

dr	Guomin Sun	2014-10-21	projection	mm	size	A3	scale	3:1
eng	Guomin Sun	2014-10-21			ecn no			
chr	ZK Hu	2014-10-21			rel level			
appr	Feagle Pan	2014-10-21	product family	Bergstak				RELEASE
FCi		title			BERGSTAK 0.8mm BTB		rev	
www.fci.com		cat. no.			61083		AG	
		Product - Customer drw			sheet 4 of 6			

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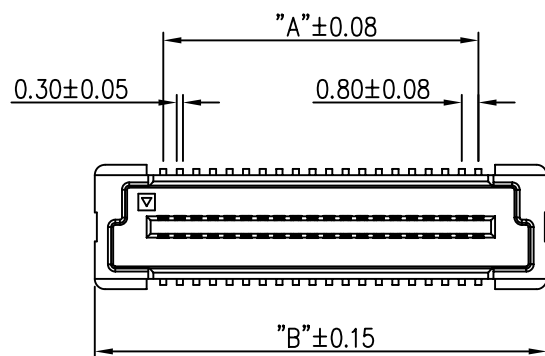
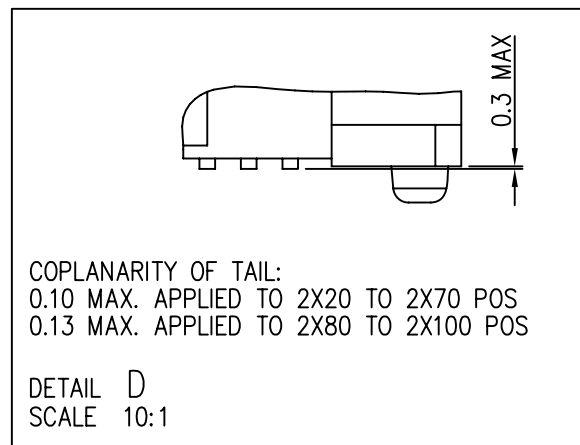
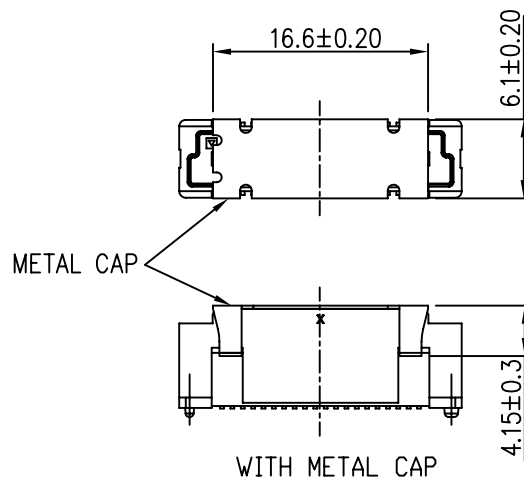
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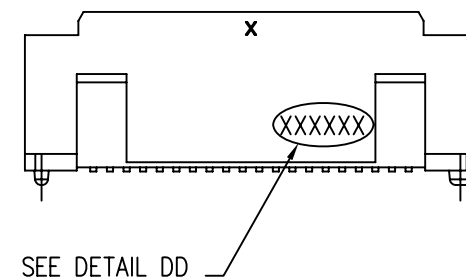
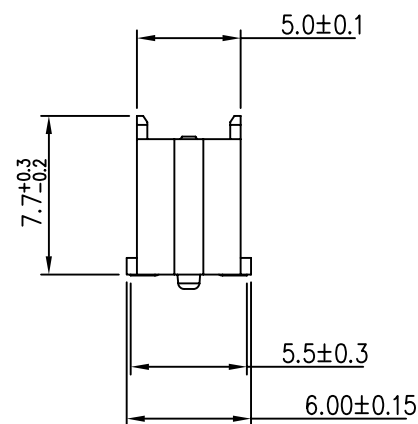
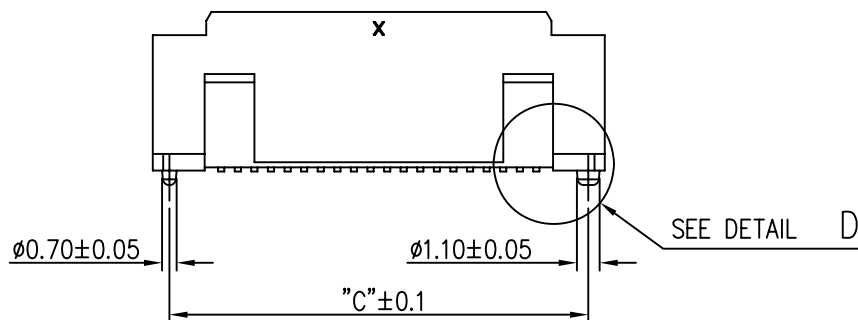
PRODUCT NO.	NO. OF POSITION	DIMENSION		
		A	B	C
61083-044***	2X20	15.2	21.8	20.2
61083-064***	2X30	23.2	29.8	28.2
61083-084***	2X40	31.2	37.8	36.2
61083-104***	2X50	39.2	45.8	44.2
61083-124***	2X60	47.2	53.8	52.2
61083-144***	2X70	55.2	61.8	60.2
61083-164***	2X80	63.2	69.8	68.2
61083-184***	2X90	71.2	77.8	76.2
61083-204***	2X100	79.2	85.8	84.2



DATE CODE: XXXXXX

DAY<01~31>
MONTH<01~12>
YEAR<00~99>

DETAIL DD



PLUG 4

dr	Guomin Sun	2014-10-21	projection	mm	size	A3	scale	3:1
eng	Guomin Sun	2014-10-21			ecn no			
chr	ZK Hu	2014-10-21			rel level			
appr	Feagle Pan	2014-10-21	product family	Bergstak				RELEASE
FCi		title		BERGSTAK 0.8mm BTB		dwg no		61083
www.fci.com		cat. no.		-		Product - Customer drw		sheet 5 of 6
								rev
								AG

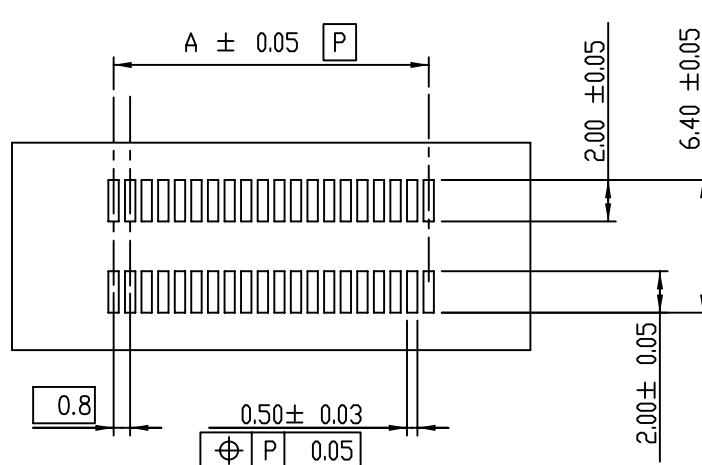
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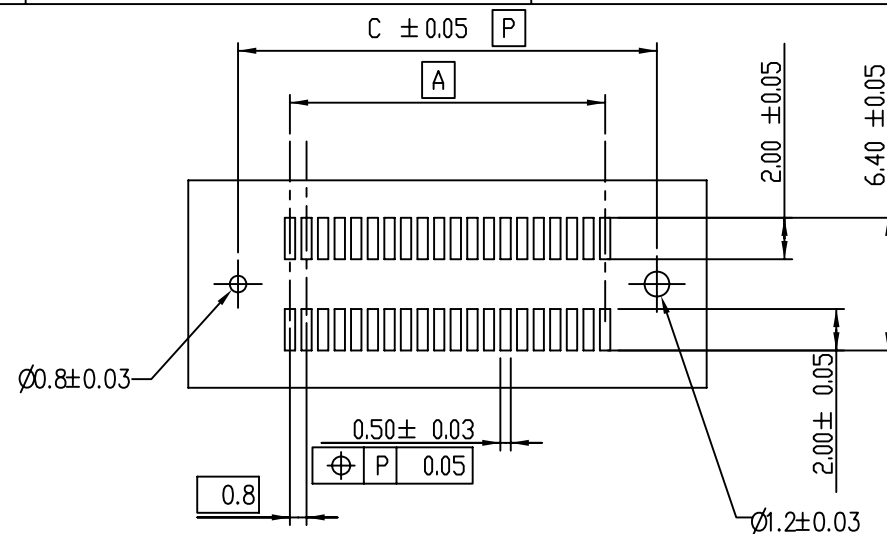
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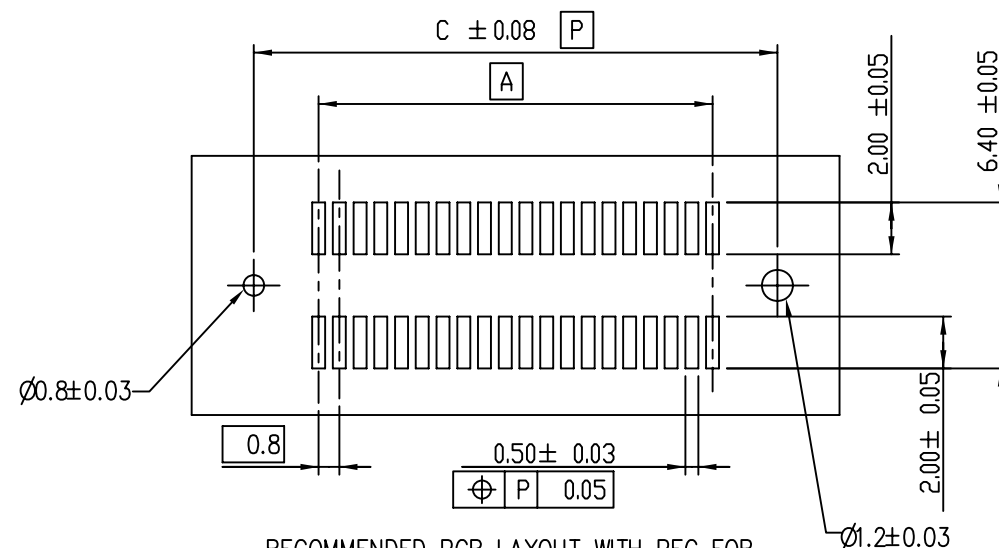
FOR PLUG 1/2/3/4



RECOMMENDED PCB LAYOUT WITHOUT PEG AND HOLDDOWN FOR
NO. OF POS 2X20, 2X30, 2X40, 2X50 2X60



RECOMMENDED PCB LAYOUT WITH PEG FOR
NO. OF POS 2X20, 2X30, 2X40, 2X50 2X60



RECOMMENDED PCB LAYOUT WITH PEG FOR
NO. OF POS 2X70, 2X80, 2X90, 2X100

dr	Guomin Sun	2014-10-21	projection	mm	size	A3	scale	3:1
eng	Guomin Sun	2014-10-21			ecn no			
chr	ZK Hu	2014-10-21			rel level			
appr	Feagle Pan	2014-10-21	product family	Bergstak				RELEASE
FCi		title			BERGSTAK 0.8mm BTB		dwg no	
www.fci.com		cat. no.			PLUG ASSY		61083	
					Product - Customer drw		rev	
							AG	