

PRODUCT NUMBER
59112-001

1.00 TYP

2.00 TYP

N x 2.00
SEE NOTE 3

POS. 3

POS. 1

4.00

C

D

POS. 4

POS. 2

1.00 OR 1.50 (SEE NOTE 9)

PLATING
ZONE

(POST LENGTH)
SEE NOTE 8

STACK HEIGHT ± 0.25
SEE NOTE 7

2.50 ± 0.25

1.50 REF

OAL
(OVER ALL LENGTH)
(SEE PIN STYLE)

1.50 REF

2.00 TYP

0.51 REF

(N-1) x 2.00

SEE NOTE 3

$\oplus 0.20(M) B C$

$\square 0.51 \pm 0.02$ TYP REF
 $\oplus 0.20(M) B D$

B

2.00 TYP

2.00

X

$\phi 0.80 \pm 0.10$ TYP
 $\oplus 0.20(M) X Y$

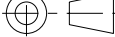
Y

2.00

(N-1) x 2.00

(RECOMMENDED HOLE PATTERN)

rev	ecn no	dr	date
F	S05-0182	KHL	2005-07-01
G	S06-0236	KHL	2006-07-17
H	S06-0328	KHL	2006-09-29
J	S07-0251	KHL	2007-07-16
K	S10-0205	N.B.R	2009-12-05
-	-	-	-
-	-	-	-

www.fciconnect.com			surface ISO 1302		- ✓ tolerance std ISO 406 ISO 1101		projection 		MM 		
			TOLERANCES UNLESS OTHERWISE SPECIFIED								
Dr	T.BRUNGARD	1999-04-05	ANGULAR	LINEAR	0.X		±0.5		size A3	Scale 10:1	
Eng	D. JOHNSCU	1999-04-06			0.XX		±0.25				
Chr	LEE KH	2009-12-05	0° ±3°		0.XXX		±0.150		ECN	S10-0205	
Appr	JOEY NG	2009-12-05			Product family		MINITEK		Spec ref		-
FCI			title				2.00mm UNSHROUDED HEADER				
			BOARD TO BOARD THRU-HOLE				dwg no				
							59112				
							Rev.				
							K				
			catalog no				-				
							CUSTOMER		sheet 1 of 2		

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A

B

C

D

A

B

C

D

PRODUCT NUMBER
59112-001

PRODUCT NUMBER DESCRIPTION :

59112-X XX - XX - XXX XLF

PLATING
S = 0.38μm GOLD
ON CONTACT AREA
0.38μm GOLD
ON TAIL
G = 0.76μm GOLD
ON CONTACT AREA
0.76μm GOLD
ON TAIL
F = 0.20μm GOLD
ON CONTACT AREA
0.20μm GOLD
ON TAIL
G = 0.76μm GOLD
ON CONTACT AREA
2.54μm 100% MATTE TIN
ON TAIL

LEAD FREE (SEE NOTE 11)
RETENTION (SEE NOTES 6 & 10)
R: RETENTIVE LEG
STACKER HEIGHT (SEE NOTE 7)
PACKAGING: - = BAGS
(SEE NOTE 5) U = TUBES
P = TUBE WITH PICK-UP CAP
A = TAPE & REEL WITH PICK-UP CAP
POSITIONS PER ROW = "N"
(02 TO 25)
OMIT FROM PRODUCT NUMBER FOR
LEAD FREE WITH RETENTIVE LEG PRODUCT

NOTES:

1. MATERIAL HOUSING: HIGH TEMPERATURE THERMOPLASTIC
UL 94V-0, COLOR BLACK
2. MATERIAL TERMINAL: COPPER ALLOY

- ③ TO DETERMINE DIMENSIONS:
N=NUMBER OF POSITIONS PER ROW
EX.: 10 POS., N x 2.00 = 20.00 TOTAL POSITIONS
4. 0.9kg MIN. PIN RETENTION IN EITHER DIRECTION.

- ⑤ PACKAGING;
(A) STANDARD PACKAGING: IN POLY BAGS.
(B) SPECIAL PACKAGING: IN TUBE OR TAPE AND REEL.
FOR TUBE AN OPTIONAL PICK-UP CAP IS PROVIDED AT
THE CENTER OF THE PRODUCT FOR PICK AND PLACE APPLICATIONS.
PICK-UP CAP IS STANDARD IN TAPE AND REEL.
FOR ALL SPECIAL PACKAGING,FCI MUST BE CONTACTED FOR
AVAILABILITY IN SIZE REQUESTED.

- ⑥ RETENTION LEG:
2.3kg MAX INSERTION FORCE AND 1 kg MIN RETENTION FORCE PER
RETENTIVE PIN USING 1.57 THICK CIRCUIT BOARD AND RECOMMENDED
HOLE PATTERN. RETENTIVE LOCATION AT THE
DISCRETION OF THE MANUFACTURER.RETENTION IS TWO PINS PER
PART ADJACENT TO ONE ANOTHER.

- ⑦ STACK HEIGHT IS DETERMINED BY CUSTOMER APPLICATION REQUIREMENTS.
SPECIFIED IN mm. EXAMPLE: 3.7mm STACK HEIGHT=59112-XXX-037X.

- ⑧ POST LENGTH IS DETERMINED BY: (OAL)-(2.50)-(STACK HGT.)=POST
LENGTH.MINIMUM MATING LENGTH TO BE 2.0mm

PIN STYLE	OAL
22	08.2
24	09.6
26	10.2
28	11.8
30	13.5
32	14.1
34	15.6
36	17.1
38	19.1
40	21.1

- ⑨. DIM 1.0 APPLIES TO MOLDED SIDE(S) ONLY. IF SIDE(S) ARE BROKEN,
DIM 1.5 MAX APPLIES.

- ⑩. OMIT FROM PRODUCT NUMBER IF FEATURE IS NOT APPLICABLE.

- ⑪. P/N:59112-XXXLF IS SAME AS P/N:59112-XXX. THE SUFFIX 'LF'
IS ADDED FOR EASY LEAD FREE IDENTIFICATION.

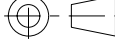
12. THE HOUSING WILL WITHSTAND EXPOSURE TO 255°C PEAK
TEMPERATURE FOR 10 SECONDS IN A CONVECTION, INFRA-RED
OR VAPOR PHASE REFLOW OVEN.

13. THE HOUSING WILL WITHSTAND EXPOSURE TO 260°C PEAK
TEMPERATURE FOR 10 SECONDS IN A WAVE SOLDER
APPLICATION WITH A 1.57MM MINIMUM THICK CIRCUIT BOARD.

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

- △ 15. A △ SYMBOL WILL BE NEXT TO ANY DIMENSION, VIEW OR NOTE
WHICH HAS BEEN MODIFIED WITH THE CURRENT DRAWING REVISION.

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			TOLERANCES UNLESS OTHERWISE SPECIFIED							
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Appr	JOEY NG	2009-12-05	Product family				MINITEK		Spec ref -	
		title 2.00mm UNSHROUDED HEADER BOARD TO BOARD THRU-HOLE					dwg no 59112			Rev. K
		catalog no -					CUSTOMER		sheet 2 of 2	