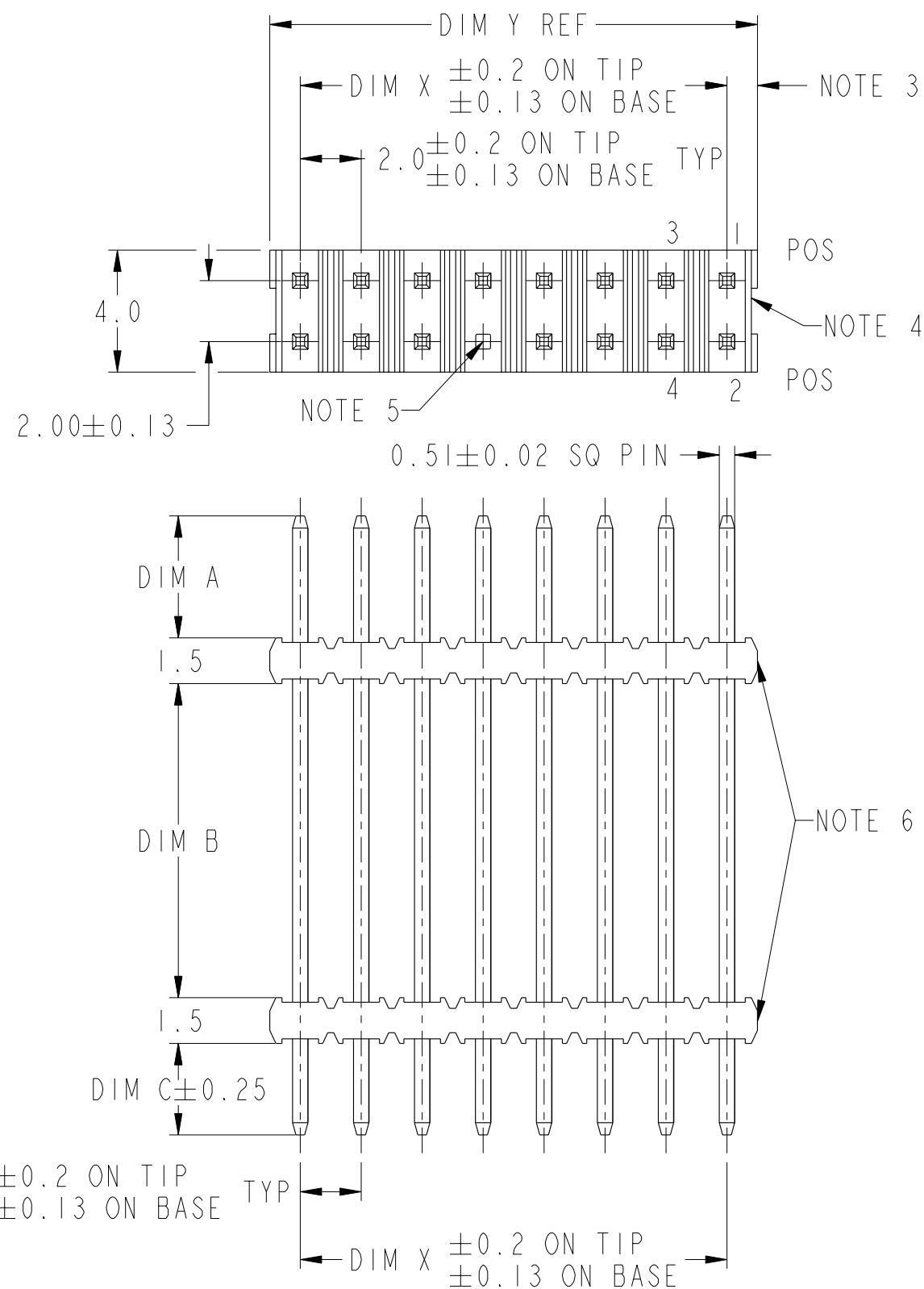


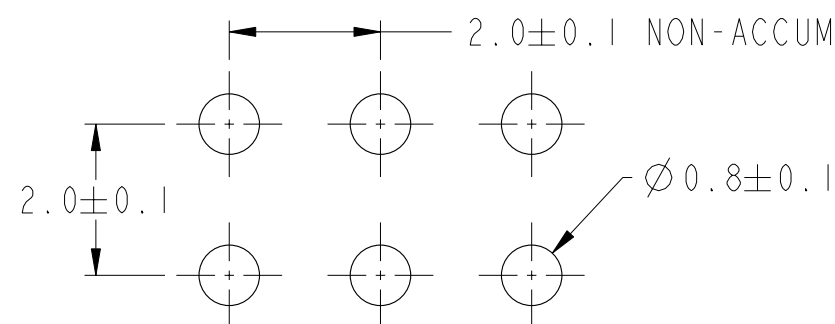


NOTES:

1. MATERIAL:
BODY : GLASS FILLED NYLON UL 94V-0 BLACK
PIN : PHOSPHOR BRONZE
2. TOLERANCE UNLESS OTHERWISE NOTED ± 0.25
3. DIM 1.0 ± 0.15 FOR MOLDED SIDE(S) ONLY. IF SIDE(S) ARE BROKEN, DIM 1.5 MAX APPLIES.
4. RECESS APPLIES TO MOLDED SIDE(S) ONLY.
5. POLARISATION BY OMISSION OF PIN. POSITION REFER TO TABLE.
6. MOLDED SIDES OF HSG TO BE ON SAME END FOR STACKABILITY-APPLICABLE FOR SPECIFIC P/N.
7. **MAX. PIN LENGTH POSSIBLE IS 21.0mm.
MAX. NUMBER OF POSITION IS 2 X 25.
8. PRODUCT DESCRIPTION CODE:
XXXXX-XXXLF
LEAD FREE. SEE NOTES 9 & 11
EXTENSION NUMBER
BASE NUMBER
9. P/N:90599-XXXLF IS SAME AS P/N:90599-XXX. THE SUFFIX 'LF' IS ADDED JUST FOR EASY LEAD FREE IDENTIFICATION.
10. 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.
11. THIS PRODUCT MEETS EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-22-008.
12. A $\triangle$ BN SYMBOL WILL BE NEXT TO ANY DIMENSION, VIEW OR NOTE WHICH HAS BEEN MODIFIED WITH THE CURRENT DRAWING REVISION.

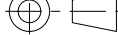
2.00 ± 0.2 ON TIP
 ± 0.13 ON BASE TYP

DIM X ± 0.2 ON TIP
 ± 0.13 ON BASE



RECOMMENDED MOUNTING HOLE LAYOUT

rev	ecn no	dr	date
BK	S05-0262	KHL	2005-09-14
BL	S06-0243	KHL	2006-07-20
BM	S09-0037	KHL	2009-02-11
BN	S10-0205	PR	2010-01-08
-	-	-	-
BH	S20036	JPEH	2002-04-17
BJ	S05-0041	KBM	2005-02-15

www.fciconnect.com			surface ISO 1302		tolerance std ISO 406 ISO 1101		projection 		MM 			
			TOLERANCES UNLESS OTHERWISE SPECIFIED									
Dr	JPEH	2002-04-17	ANGULAR	LINEAR	0.X		±-		size A3	Scale 5:1		
Eng	JPEH	2002-04-17			0.XX		±0.25					
Chr	KH LEE	2010-01-08			0.XXX		±-					
Appr	JOEY NG	2010-01-08	Product family				MINITEK		Spec ref -			
			title MINITEK II RAIL-ROAD STR HDR				dwg no 90599				Rev. BN	
			catalog no -				CUSTOMER			sheet 1 of 4		

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D

A	1			2			3		4
	PRODUCT NO.	POS	DIM X	DIM Y	DIM A	DIM B	DIM C	PLATING	
A	90599-001	2X8	14	16	4.0	10.3	3.0	0.2μm MIN Au	-
	002	2X20	38	40	4.0	-	3.0	0.2μm MIN Au	-
	003	2X25	48	50	4.0	5.9	3.0	0.2μm MIN Au	-
	004	2X10	18	20	4.0	0.5	3.0	0.2μm MIN Au	-
	005	2X25	48	50	4.0	-	3.0	0.2μm MIN Au	-
	006	2X8	14	16	3.5	5.0	3.0	0.2μm MIN Au	-
	007	2X10	18	20	4.0	3.0	3.0	0.2μm MIN Au	-
B	008	2X9	16	18	4.0	7.5	2.5	0.38μm MIN GXT	-
	009	2X10	18	20	4.0	3.0	3.0	0.2μm MIN Au	10, 11
	010	2X10	18	20	4.0	3.0	3.0	0.2μm MIN Au	10
	011	2X4	6	8	4.0	4.5	1.5	0.2μm MIN Au	-
	012	2X5	8	10	4.0	5.0	2.5	0.2μm MIN Au	-
	013	2X12	22	24	8.9	9.7	2.5	0.38μm MIN GXT	-
	014	2X4	6	8	4.0	4.5	2.5	0.2μm MIN Au	-
C	015	2X11	20	22	4.0	7.0	2.5	0.2μm MIN Au	-
	016	2X8	14	16	4.0	6.5	3.0	0.2μm MIN Au	-
	017	2X10	18	20	4.0	10.3	3.0	0.2μm MIN Au	-
	018	2X8	14	16	4.0	7.5	2.5	0.2μm MIN Au	-
	019	2X20	38	40	6.0	5.0	2.5	0.76μm MIN GXT	-
	020	2X5	8	10	2.3	2.0	4.0	0.38μm MIN Au	-
	021	2X14	26	28	4.0	3.0	2.3	0.38μm MIN GXT	-
	022	2X14	26	28	4.0	8.0	2.3	0.38μm MIN GXT	-
	023	2X17	32	34	4.0	3.0	2.3	0.38μm MIN GXT	-
	024	2X17	32	34	4.0	8.0	2.3	0.38μm MIN GXT	-
	025	2X4	6	8	4.0	-	2.5	0.2μm MIN Au	-

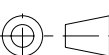
A

B

C

D

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www.fciconnect.com			surface ISO 1302		- ✓ tolerance std ISO 406 ISO 1101		projection 	MM 	
			TOLERANCES UNLESS OTHERWISE SPECIFIED						
Dr	JPEH	2002-04-17	ANGULAR	LINEAR	0.X	±-	size A3	Scale 5:1	
Eng	JPEH	2002-04-17			0.XX	±0.25			
Chr	KH LEE	2010-01-08	0°	±-°	0.XXX	±-	ECN	S10-0205	
Appr	JOEY NG	2010-01-08	Product family				MINITEK	Spec ref	-
		title MINITEK 11 RAIL-ROAD STR HDR				dwg no 90599			Rev. BN
catalog no				-	CUSTOMER			sheet 2 of 4	



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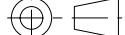
A

B

C

PRODUCT NO.	POS	DIM X	DIM Y	DIM A	DIM B	DIM C	PLATING	POL. POS
90599-026	2X6	10	12	4.0	3.0	2.3	0.38μm MIN GXT	-
027	2X25	48	50	4.0	8.0	2.3	0.38μm MIN GXT	-
028	2X12	22	24	5.5	10.7	2.5	0.38μm MIN GXT	-
029	2X4	6	8	4.0	9.0	2.3	0.38μm MIN GXT	-
030	2X7	12	14	4.0	9.0	2.3	0.38μm MIN GXT	-
031	2X15	28	30	4.0	9.0	2.3	0.38μm MIN GXT	-
032	2X15	28	30	4.0	6.0	2.3	0.38μm MIN GXT	-
033	2X4	6	8	4.0	0.5	2.3	0.38μm MIN GXT	-
034	2X18	34	36	4.0	8.0	2.3	0.38μm MIN GXT	-
035	2X15	28	30	4.0	7.0	2.3	0.38μm MIN GXT	-
036	2X15	28	30	4.0	3.0	2.3	0.38μm MIN GXT	-
037	2X14	26	28	4.0	5.0	2.5	0.76μm MIN Au	-
038	2X22	42	44	4.2 ⁺⁰ _{-0.1}	4.5 ⁺⁰ _{-0.2}	2.8	0.76μm MIN GXT	-
039	2X22	42	44	4.2 ⁺⁰ _{-0.1}	9.5 ⁺⁰ _{-0.2}	2.8	0.76μm MIN GXT	-
040	2X22	42	44	4.2 ⁺⁰ _{-0.1}	14.5 ⁺⁰ _{-0.2}	2.8	0.76μm MIN GXT	-
041	2X4	6	8	4.0	3.5	2.5	0.38μm MIN Au	-
042	2X15	28	30	4.0	9.7	2.35	0.38μm MIN GXT	-
043	2X15	28	30	8.3	3.7	2.5	0.38μm MIN GXT	-
044	2X22	42	44	4.0	8.0	2.3	0.38μm MIN GXT	-
045	2X18	34	36	4.0	2.5	2.5	0.38μm MIN GXT	-
046	2X20	38	40	4.0	5.0	3.0	0.76μm MIN GXT	-
047	2X6	10	12	2.8	1.7 ^{+0.1} ₋₀	2.5	0.38μm MIN GXT	-
048	2X16	30	32	4.0	8.0	3.0	0.38μm MIN GXT	-
049	2X15	28	30	4.3	6.7	2.3	0.38μm MIN GXT	-
050	2X4	6	8	4.35	1.0	4.35	0.38μm MIN GXT	-

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www.fciconnect.com			surface - 		tolerance std		projection		MM 		
			ISO 1302		ISO 406 ISO 1101						
TOLERANCES UNLESS OTHERWISE SPECIFIED											
Dr	JPEH	2002-04-17	ANGULAR	LINEAR	0.X	±-	size	Scale 5:1 A3			
Eng	JPEH	2002-04-17			0.XX	±0.25					
Chr	KH LEE	2010-01-08	0°	±-°	0.XXX	±-	ECN		S10-0205		
Appr	JOEY NG	2010-01-08	Product family				MINITEK		Spec ref -		
		title MINITEK II RAIL-ROAD STR HDR				dwg no 90599				Rev. BN	
		catalog no -				CUSTOMER			sheet 3 of 4		



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A	1			2			3		4
	PRODUCT NO.	POS	DIM X	DIM Y	DIM A	DIM B	DIM C	PLATING	
	90599-051	2X14	26	28	4.0	3.6	3.0	0.76µm MIN Au	-
	052	2X6	10	12	4.0	3.6	3.0	0.76µm MIN Au	-
	053	2X5	8	10	4.0	6.5	3.0	0.76µm MIN Au	-
	054	2X24	46	48	4.0	10.3	3.0	0.2µm MIN Au	-
	055	2X10	18	20	3.8	9.7	3.8	0.38µm MIN GXT	-
	056	2X15	28	30	3.9	0.6	3.9	0.76µm MIN Au	-
	057	2X20	38	40	4.9	2.1	4.9	0.76µm MIN Au	-
B	058	2X2	2	4	3.4	2.0	3.4	0.38µm MIN Au	-
	059	2X10	18	20	4.0	7.3	4.0	0.76µm MIN GXT	-
	060	2X25	48	50	4.0	7.3	4.0	0.76µm MIN GXT	-
	061	2X20	38	40	3.9	2.1	3.9	0.76µm MIN GXT	-
	062	2X15	28	30	4.5	11.0	4.5	0.2µm MIN Au	-
	063	2X20	38	40	5.6	2.8	5.6	0.76µm MIN Au	-
	064	2X20	38	40	3.6	3.2	3.6	0.76µm MIN Au	-
C	065	2X15	28	30	3.6	3.2	3.6	0.76µm MIN Au	-
	066	2X10	18	20	3.5	9.6	3.5	0.76µm MIN Au	-
	067	2X5	8	10	3.6	6.9	2.0	0.76µm MIN Au	-
	068	2X10	18	20	3.6	6.9	2.0	0.76µm MIN Au	-
	069	2X12	22	24	3.6	6.9	2.0	0.76µm MIN Au	-
	070	2X17	32	34	3.6	6.9	2.0	0.76µm MIN Au	-
	071	2X10	18	20	5.8	4.0	3.5	0.76µm MIN Au	-
	072	2X15	28	30	4.3	6.7	4.3	0.38µm MIN GXT	-
	073	2X16	30	32	2.5	22.0	2.5	0.76µm MIN Au	-
	074	2X12	22	24	7.0	17.0	3.0	0.2µm MIN Au	-

SEE NOTE 6

SEE NOTE 6

SEE NOTE 6

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www.fciconnect.com			surface -		tolerance std		projection		MM 	
			ISO 1302		ISO 406 ISO 1101					
TOLERANCES UNLESS OTHERWISE SPECIFIED										
Dr	JPEH	2002-04-17	ANGULAR	LINEAR	0.X	±-	size A3	Scale 5:1		
Eng	JPEH	2002-04-17			0.XX	±0.25				
Chr	KH LEE	2010-01-08	0° ±°		0.XXX	±-	ECN	S10-0205		
Appr	JOEY NG	2010-01-08	Product family				MINITEK	Spec ref -		
		title	MINITEK 11				dwg no 90599		Rev. BN	
			RAIL-ROAD STR HDR							
		catalog no		-				CUSTOMER		sheet 4 of 4