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CONFIGURATION OF CUSTOMER DOCUMENTS

P/N	DOCUMENTS	DWG. NO.	TITLE
HLW__R/S-2A7LF	SPEC	SC-HLW05	CONNECTOR USED FOR FPC/FFC WITH 1mm CONTACT SPACING
	CONNECTOR	JSA96830	CAT NO.TABLE FOR 1mm SPACING CONNECTOR
		JSA96831	1mm SPACING CONNECTOR FOR FPC/FFC
		JSA96832	1mm SPACING CONNECTOR FOR FPC/FFC
	CABLE	JSA93382	RECOMMENDED CABLE(FPC)
		JSA93383	RECOMMENDED CABLE(FFC)
	MANUAL	BJM-HLW101	HANDLING PROCEDURES AND REMARKS

P/N	DOCUMENTS	DWG. NO.	TITLE
HLW__R/S-6A7LF	SPEC	SC-HLW06	CONNECTOR USED FOR CIC WITH 1mm CONTACT SPACING
	CONNECTOR	JSA96833	CAT NO.TABLE FOR 1mm SPACING CONNECTOR
		JSA96834	1mm SPACING CONNECTOR FOR CIC
		JSA96835	1mm SPACING CONNECTOR FOR CIC
	CABLE	JSA93626	RECOMMENDED CABLE(CIC)
	MANUAL	BJM-HLW102	HANDLING PROCEDURES AND REMARKS

mat'l. code				surface 58 / tolerance ISO 1302 406 ISO 1101		projection		product family 58PF/QF		CODE JP	
ltr	ecn no	dr	date	tolerances unless otherwise specified				title 1mm SPACING CONNECTOR DOCUMENT LIST (Cat. No. HLW__R/S-2/6A7LF)			
A	J05-0775	H.T	11/16/05	angles	linear	mm					
B	J06-0449	H.T	11/2/06			scale X		dwg no sheet 1 of 1 size JSA96829 A4			
				dr	engr	chr	appd				
								Rev. B			
sheet index	revision sheet	B 1									

form: A4

1

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CAT. NO. & DIMENSIONS

NO. OF CONTACTS (n)	CAT. NO.		DIMENSIONS (NOTE1)		
	RIGHT ANGLE TYPE	STRAIGHT TYPE	A ± 0.3	B ± 0.1	C ± 0.3
4	HLW 4 R-2A7LF	HLW 4 S-2A7LF	6.6	5.12	3.0
5	HLW 5 R-2A7LF	HLW 5 S-2A7LF	7.6	6.12	4.0
6	HLW 6 R-2A7LF	HLW 6 S-2A7LF	8.6	7.12	5.0
7	HLW 7 R-2A7LF	HLW 7 S-2A7LF	9.6	8.12	6.0
8	HLW 8 R-2A7LF	HLW 8 S-2A7LF	10.6	9.12	7.0
9	HLW 9 R-2A7LF	HLW 9 S-2A7LF	11.6	10.12	8.0
10	HLW 10 R-2A7LF	HLW 10 S-2A7LF	12.6	11.12	9.0
11	HLW 11 R-2A7LF	HLW 11 S-2A7LF	13.6	12.12	10.0
12	HLW 12 R-2A7LF	HLW 12 S-2A7LF	14.6	13.12	11.0
13	HLW 13 R-2A7LF	HLW 13 S-2A7LF	15.6	14.12	12.0
14	HLW 14 R-2A7LF	HLW 14 S-2A7LF	16.6	15.12	13.0
15	HLW 15 R-2A7LF	HLW 15 S-2A7LF	17.6	16.12	14.0
16	HLW 16 R-2A7LF	HLW 16 S-2A7LF	18.6	17.12	15.0
17	HLW 17 R-2A7LF	HLW 17 S-2A7LF	19.6	18.12	16.0
18	HLW 18 R-2A7LF	HLW 18 S-2A7LF	20.6	19.12	17.0
19	HLW 19 R-2A7LF	HLW 19 S-2A7LF	21.6	20.12	18.0
20	HLW 20 R-2A7LF	HLW 20 S-2A7LF	22.6	21.12	19.0
21	HLW 21 R-2A7LF	HLW 21 S-2A7LF	23.6	22.12	20.0
22	HLW 22 R-2A7LF	HLW 22 S-2A7LF	24.6	23.12	21.0
23	HLW 23 R-2A7LF	HLW 23 S-2A7LF	25.6	24.12	22.0
24	HLW 24 R-2A7LF	HLW 24 S-2A7LF	26.6	25.12	23.0
25	HLW 25 R-2A7LF	HLW 25 S-2A7LF	27.6	26.12	24.0
26	HLW 26 R-2A7LF	HLW 26 S-2A7LF	28.6	27.12	25.0
27	HLW 27 R-2A7LF	HLW 27 S-2A7LF	29.6	28.12	26.0
28	HLW 28 R-2A7LF	HLW 28 S-2A7LF	30.6	29.12	27.0
29	HLW 29 R-2A7LF	HLW 29 S-2A7LF	31.6	30.12	28.0
30	HLW 30 R-2A7LF	HLW 30 S-2A7LF	32.6	31.12	29.0
31	HLW 31 R-2A7LF	HLW 31 S-2A7LF	33.6	32.12	30.0
32	HLW 32 R-2A7LF	HLW 32 S-2A7LF	34.6	33.12	31.0

CAT. NO. HLW (n) R - 2A7 LF

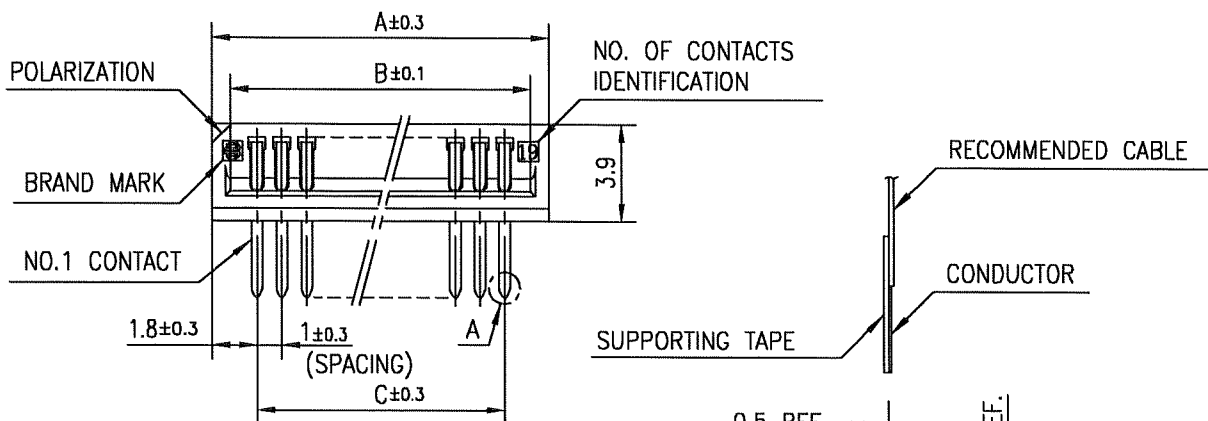
SERIES _____
 NO. OF CONTACTS _____
 R : RIGHT ANGLE TYPE
 S : STRAIGHT TYPE
 VARIATION _____
 LEAD FREE _____

NOTES

1. SEE PART DRAWINGS FOR
 DIMENSIONS A~C.

mat'l. code				surface 58 / tolerance ISO 406 / ISO 1101		projection		product family 58PF/QF		CODE JP	
ltr	ecn no	dr	date	tolerances unless otherwise specified		 mm		title CAT NO. TABLE FOR 1mm SPACING CONNECTOR (Cat. No. HLW__R/S-2A7LF)			
A	J05-0775	H.T	11/16/05	angles	linear						
B	J06-0449	H.T	11/2/05			scale X		dwg no JSA 96830 sheet 1 of 1 size A4			
				dr	engr	chr	appd				
								type Product Customer Drawing			
sheet index	revision	B	1					Rev. B			

SC-HLW05, JSA96831,96832,93382,93383
 form: A4



MATERIAL

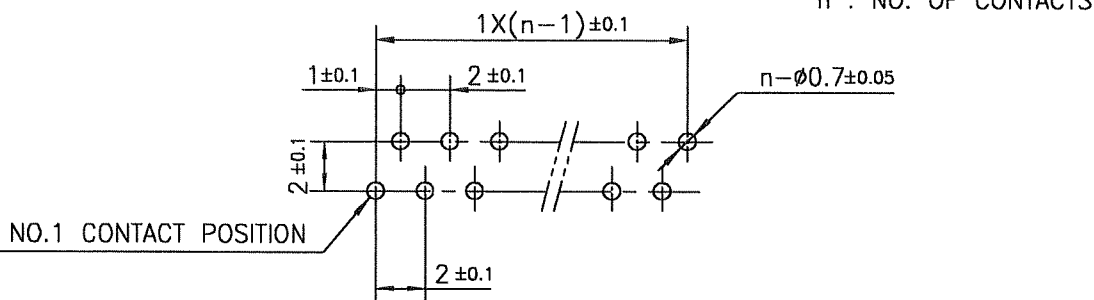
INSULATOR : PBT RESIN GLASS REINFORCED (UL94V-0)
 COLOR : BLACK
 CONTACT : PHOSPHER BRONZE
 PLATING : TIN

NOTE

1. THIS PRODUCT IS RIGHT ANGLE TYPE CONNECTOR.
2. THIS PRODUCT MEETS EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-22-008.
3. THE HOUSING WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 10 SECONDS IN A WAVE SOLDER APPLICATION WITH A 1.6mm THICK CIRCUIT BOARD.

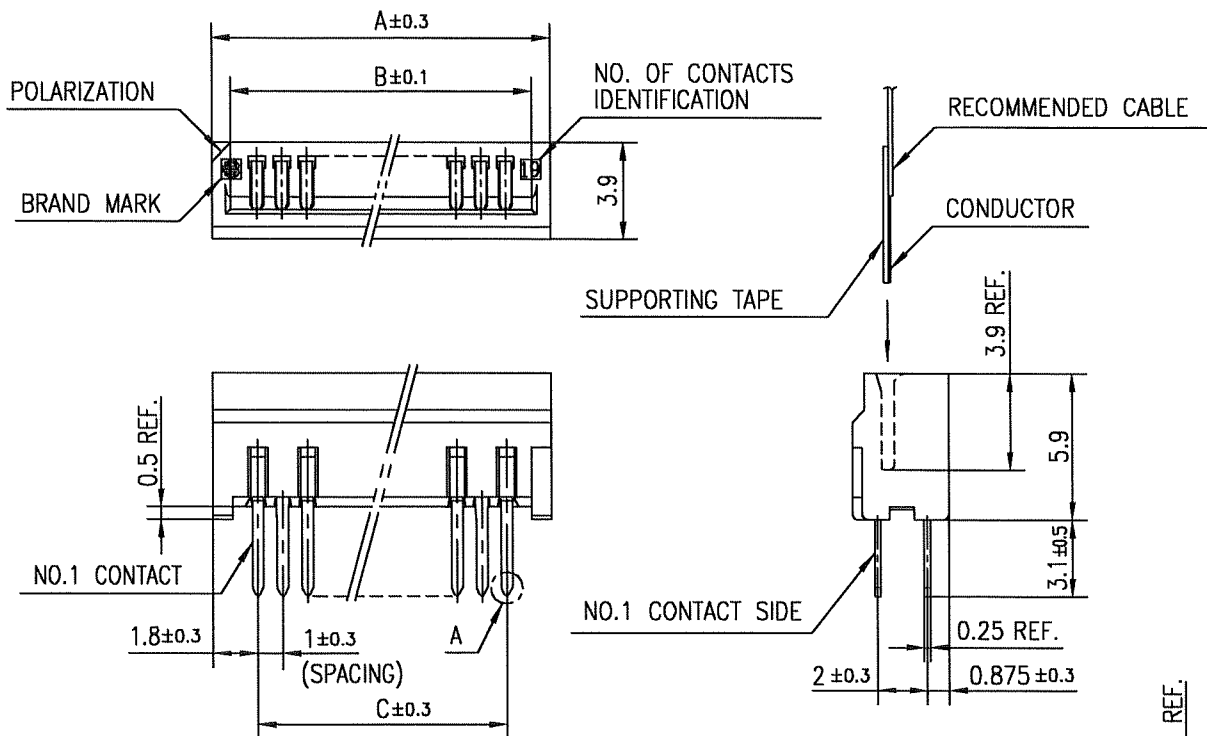
RECOMMENDED PC BOARD

THICKNESS : 1.2~1.6
 HOLE PATTERN (COMPONENT SIDE)



mat'l. code				surface ISO 1302 ✓	tolerance ISO 406 ISO 1101	projection mm	product family 58PF	CODE JP
ltr	ecn no	dr	date	tolerances unless otherwise specified		mm	title 1mm SPACING CONNECTOR FOR FPC/FFC (Cat. No. HLW__R-2A7LF)	
A	J05-0775	H.T	11/16/05	angles	linear			
B	J06-0449	H.T	11/2/06			scale	dwg no	sheet 1 of 1
				dr	engr	FCI	JSA 96831	
				chr	appd			
sheet index	revision	B					type Product Customer Drawing	
	sheet	1						Rev. B

SC-HLW05, JSA96830
 form: A4



MATERIAL

INSULATOR : PBT RESIN GLASS REINFORCED (UL94V-0)
 COLOR : BLACK
 CONTACT : PHOSPHOR BRONZE
 PLATING : TIN

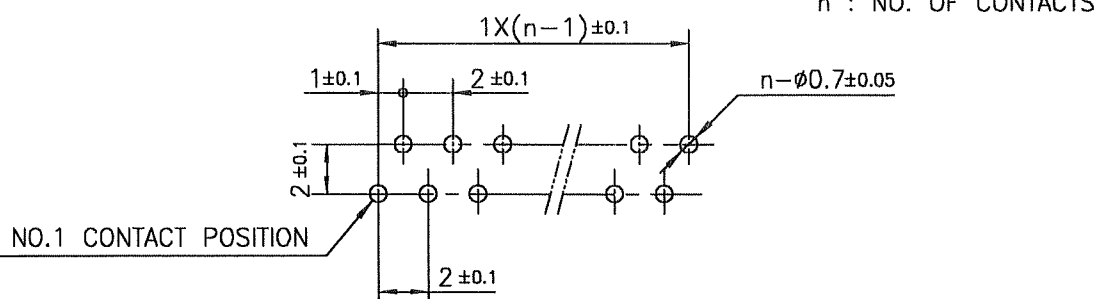
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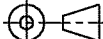
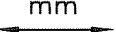
1. THIS PRODUCT IS RIGHT ANGLE TYPE CONNECTOR.
2. THIS PRODUCT MEETS EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-22-008.
3. THE HOUSING WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 10 SECONDS IN A WAVE SOLDER APPLICATION WITH A 1.6mm THICK CIRCUIT BOARD.

DETAIL A

RECOMMENDED PC BOARD

THICKNESS : 1.2~1.6
 HOLE PATTERN (COMPONENT SIDE)

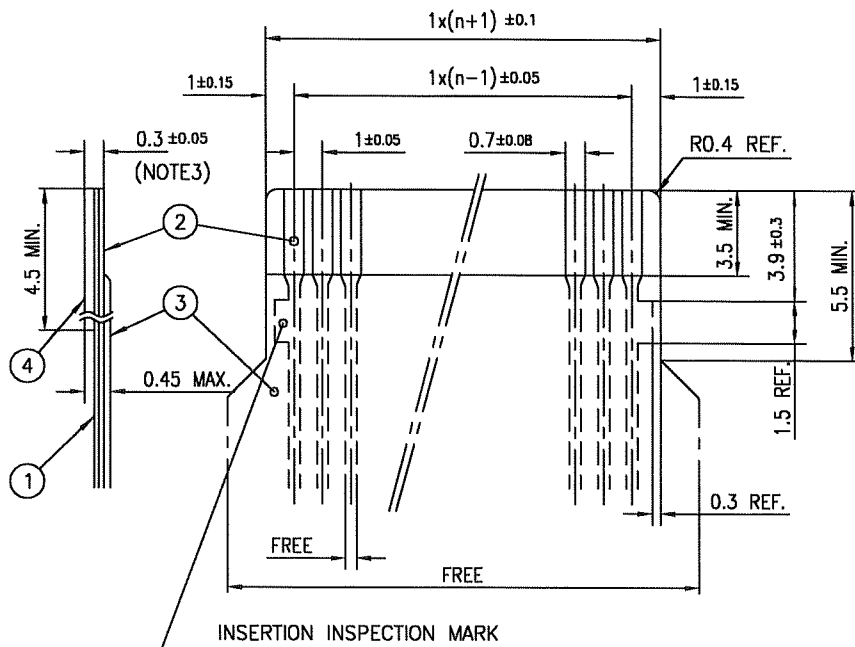


mat'l. code				surface 58 ✓ ISO 1302		tolerance ISO 406 ISO 1101		projection 		product family 58QF				CODE JP	
ltr	ecn no	dr	date	tolerances unless otherwise specified						title 1mm SPACING CONNECTOR FOR FPC/FFC (Cat. No. HLW__S-2A7LF)					
A	J05-0775	H.T	11/16/05	angles	linear ±0.2										
B	J06-0449	H.T	11/2/06					scale X							
				dr					dwg no				sheet 1 of 1		size
				engr					JSA 96832				A4		
				chr											
				appd											
sheet index	revision	B													Rev B
	sheet	1													

SC-HLW05, JSA96830
 form: A4

RECOMMENDED CABLE (FPC)

n : NO. OF CONDUCTORS



PT. NO.	DESCRIPTION	MATERIAL	THICKNESS (μm)
1	BASE FILM	POLYIMIDE OR POLYESTER OR EQUIVALENT	25
2	CONDUCTOR	COPPER FOIL (PLATING : SOLDER 1μm MIN.)	35
3	OVERLAY	POLYIMIDE OR POLYESTER OR EQUIVALENT	—
4	SUPPORTING TAPE	POLYESTER OR POLYIMIDE OR EQUIVALENT	188

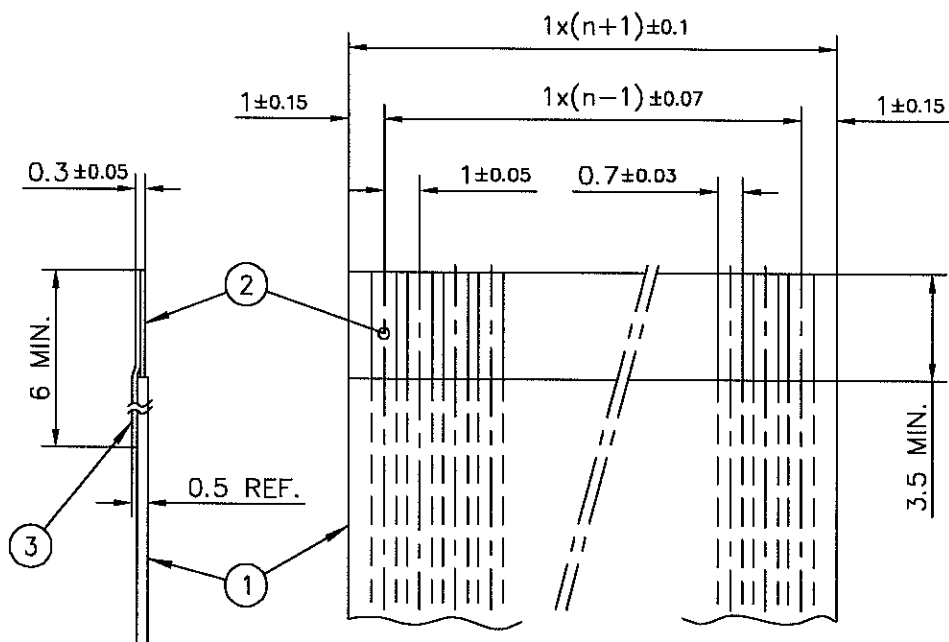
NOTES

1. NO BURR AT EACH PORTION.
2. NO PEELING IN COMMON USE.
3. TOTAL THICKNESS LIMIT OF EACH MATERIAL (INCLUDING ADHESIVE AGENT) IS SPECIFIED.

mat'l. code				surface 58 / tolerance ISO 1302 ✓ ISO 406 ISO 1101		projection		product family 58PF/QF		CODE JP		
ltr	ecn no	dr	date	tolerances unless otherwise specified				title RECOMMENDED CABLE (FPC) (Cat. No. HLW__R/S-__)				
AA	J05-0270	H.T	5/11/05	angles	linear	mm						
AB	J06-0449	H.T	11/2/06			scale X		dwg no sheet 1 of 1 size JSA 93382 A4				
				dr								
				enr					type Product Customer Drawing			
				chr								
				appd					Rev. AB			
sheet index	revision	AB	1									

RECOMMENDED CABLE (FFC)

n : NO. OF CONDUCTORS



PT. NO.	DESCRIPTION	MATERIAL	NOTE
1	INSULATOR	FLAME RESISTING POLYESTER OR EQUIVALENT	
2	CONDUCTOR	COPPER FOIL	PLATING : TIN OR SOLDER 1 μ m MIN.
3	SUPPORTING TAPE	FLAME RESISTING POLYESTER OR EQUIVALENT	

NOTES

1. NO BURR AT EACH PORTION.
2. NO PEELING IN COMMON USE.

mat'l. code				surface 58 / tolerance ISO 1302 $\checkmark$ ISO 406 ISO 1101		projection		product family 58PF/QF		CODE JP	
litr	ecn no	dr	date	tolerances unless otherwise specified				title			
AA	J05-0270	H.T	5/11/05	angles linear		mm		RECOMMENDED CABLE (FFC)			
AB	J06-0449	H.T	11/2/06					(Cat. No. HLW__R/S-__)			
				dr		11/2/06		dwg no		sheet 1 of 1 size	
				enrg		11/2/06		JSA 93383		A4	
				chr		11/2/06		type		Product Customer Drawing	
				appd		11/2/06					
sheet index	revision	AB	1							Rev. AB	

form: A4

1

2

CAT. NO. & DIMENSIONS

NO. OF CONTACTS (n)	CAT. NO.		DIMENSIONS (NOTE1)		
	RIGHT ANGLE TYPE	STRAIGHT TYPE	A ± 0.3	B ± 0.1	C ± 0.3
4	HLW 4 R-6A7LF	HLW 4 S-6A7LF	6.6	5.12	3.0
5	HLW 5 R-6A7LF	HLW 5 S-6A7LF	7.6	6.12	4.0
6	HLW 6 R-6A7LF	HLW 6 S-6A7LF	8.6	7.12	5.0
7	HLW 7 R-6A7LF	HLW 7 S-6A7LF	9.6	8.12	6.0
8	HLW 8 R-6A7LF	HLW 8 S-6A7LF	10.6	9.12	7.0
9	HLW 9 R-6A7LF	HLW 9 S-6A7LF	11.6	10.12	8.0
10	HLW 10 R-6A7LF	HLW 10 S-6A7LF	12.6	11.12	9.0
11	HLW 11 R-6A7LF	HLW 11 S-6A7LF	13.6	12.12	10.0
12	HLW 12 R-6A7LF	HLW 12 S-6A7LF	14.6	13.12	11.0
13	HLW 13 R-6A7LF	HLW 13 S-6A7LF	15.6	14.12	12.0
14	HLW 14 R-6A7LF	HLW 14 S-6A7LF	16.6	15.12	13.0
15	HLW 15 R-6A7LF	HLW 15 S-6A7LF	17.6	16.12	14.0
16	HLW 16 R-6A7LF	HLW 16 S-6A7LF	18.6	17.12	15.0
17	HLW 17 R-6A7LF	HLW 17 S-6A7LF	19.6	18.12	16.0
18	HLW 18 R-6A7LF	HLW 18 S-6A7LF	20.6	19.12	17.0
19	HLW 19 R-6A7LF	HLW 19 S-6A7LF	21.6	20.12	18.0
20	HLW 20 R-6A7LF	HLW 20 S-6A7LF	22.6	21.12	19.0
21	HLW 21 R-6A7LF	HLW 21 S-6A7LF	23.6	22.12	20.0
22	HLW 22 R-6A7LF	HLW 22 S-6A7LF	24.6	23.12	21.0
23	HLW 23 R-6A7LF	HLW 23 S-6A7LF	25.6	24.12	22.0
24	HLW 24 R-6A7LF	HLW 24 S-6A7LF	26.6	25.12	23.0
25	HLW 25 R-6A7LF	HLW 25 S-6A7LF	27.6	26.12	24.0
26	HLW 26 R-6A7LF	HLW 26 S-6A7LF	28.6	27.12	25.0
27	HLW 27 R-6A7LF	HLW 27 S-6A7LF	29.6	28.12	26.0
28	HLW 28 R-6A7LF	HLW 28 S-6A7LF	30.6	29.12	27.0
29	HLW 29 R-6A7LF	HLW 29 S-6A7LF	31.6	30.12	28.0
30	HLW 30 R-6A7LF	HLW 30 S-6A7LF	32.6	31.12	29.0
31	HLW 31 R-6A7LF	HLW 31 S-6A7LF	33.6	32.12	30.0
32	HLW 32 R-6A7LF	HLW 32 S-6A7LF	34.6	33.12	31.0

CAT. NO. HLW (n) R - 6A7 LF

SERIES

NO. OF CONTACTS

R : RIGHT ANGLE TYPE

S : STRAIGHT TYPE

VARIATION

LEAD FREE

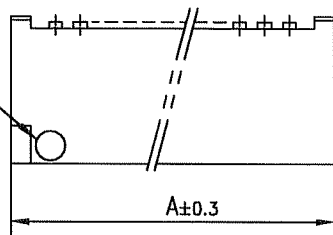
NOTES

1. SEE PART DRAWINGS FOR DIMENSIONS A~C.

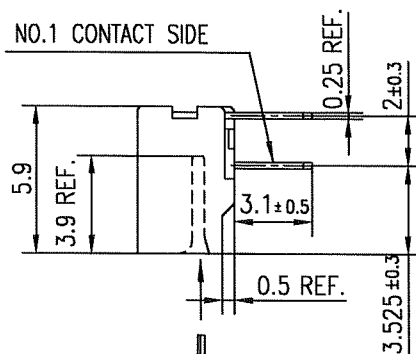
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ltr	ecn no	dr	date	tolerances unless otherwise specified				title CAT NO. TABLE FOR 1mm SPACING CONNECTOR (Cat. No. HLW__R/S-6A7LF)			
A	J05-0775	H.T	11/16/05	angles	linear	mm					
B	J06-0449	H.T	11/2/06			scale X		dwg no JSA 96833 sheet 1 of 1 size A4			
				dr	engr	chr	appd				
								type Product Customer Drawing			
sheet index	revision	B									
	sheet	1						Rev. B			

SC-HLW06, JSA96834,96835,93626
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CIC MARK



NO.1 CONTACT SIDE



POLARIZATION

B±0.1

BRAND MARK

NO.1 CONTACT

1.8±0.3

1±0.3
(SPACING)

C±0.3

NO. OF CONTACTS
IDENTIFICATION

CONDUCTOR

SUPPORTING TAPE

RECOMMENDED CABLE

MATERIAL

INSULATOR : PBT RESIN GLASS REINFORCED (UL94V-0)

COLOR : BLACK

CONTACT : PHOSPHER BRONZE

PLATING : TIN

NOTE

- 1.THIS PRODUCT IS RIGHT ANGLE TYPE CONNECTOR.
- 2.THIS PRODUCT MEETS EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-22-008.
- 3.THE HOUSING WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 10 SECONDS IN A WAVE SOLDER APPLICATION WITH A 1.6mm THICK CIRCUIT BOARD.

0.45 REF.

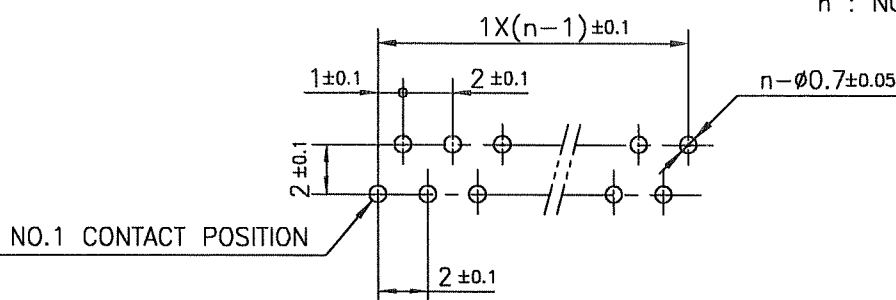
DETAIL A

RECOMMENDED PC BOARD

THICKNESS : 1.2~1.6

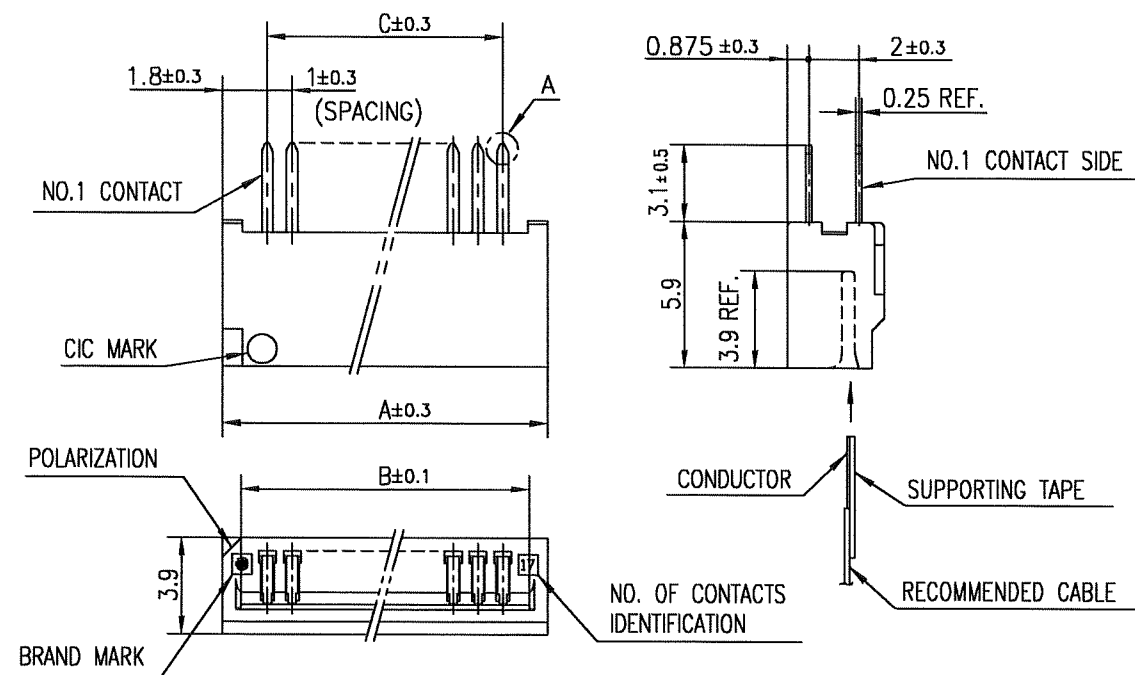
HOLE PATTERN (COMPONENT SIDE)

n : NO. OF CONTACTS



mat'l. code				surface 58 ISO 1302	tolerance ISO 406 ISO 1101	projection	product family	58PF	CODE JP
ltr	ecn no	dr	date	tolerances unless otherwise specified		mm	title 1mm SPACING CONNECTOR FOR CIC (Cat. No. HLW__R-6A7LF)		
A	J05-0775	H.T	11/16/'05	angles	linear				
B	J06-0449	H.T	11/2/'06			scale	dwg no		
				dr	11/2/06	FCI	sheet 1 of 1		size
				enr	11/2/06		JSA 96834		A4
				chr	11/2/06		type Product Customer Drawing		
				appd	11/17/06				
sheet	revision	B							Rev.
index	sheet	1							B

SC-HLW06, JSA96833
form: A4



MATERIAL

INSULATOR : PBT RESIN GLASS REINFORCED (UL94V-0)
 COLOR : BLACK
 CONTACT : PHOSPHER BRONZE
 PLATING : TIN

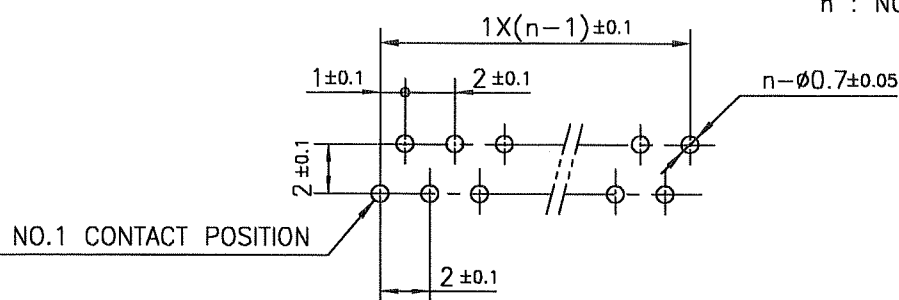
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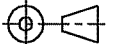
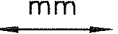
1. THIS PRODUCT IS RIGHT ANGLE TYPE CONNECTOR.
2. THIS PRODUCT MEETS EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-22-008.
3. THE HOUSING WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 10 SECONDS IN A WAVE SOLDER APPLICATION WITH A 1.6mm THICK CIRCUIT BOARD.

RECOMMENDED PC BOARD

THICKNESS : 1.2~1.6
 HOLE PATTERN (COMPONENT SIDE)

n : NO. OF CONTACTS

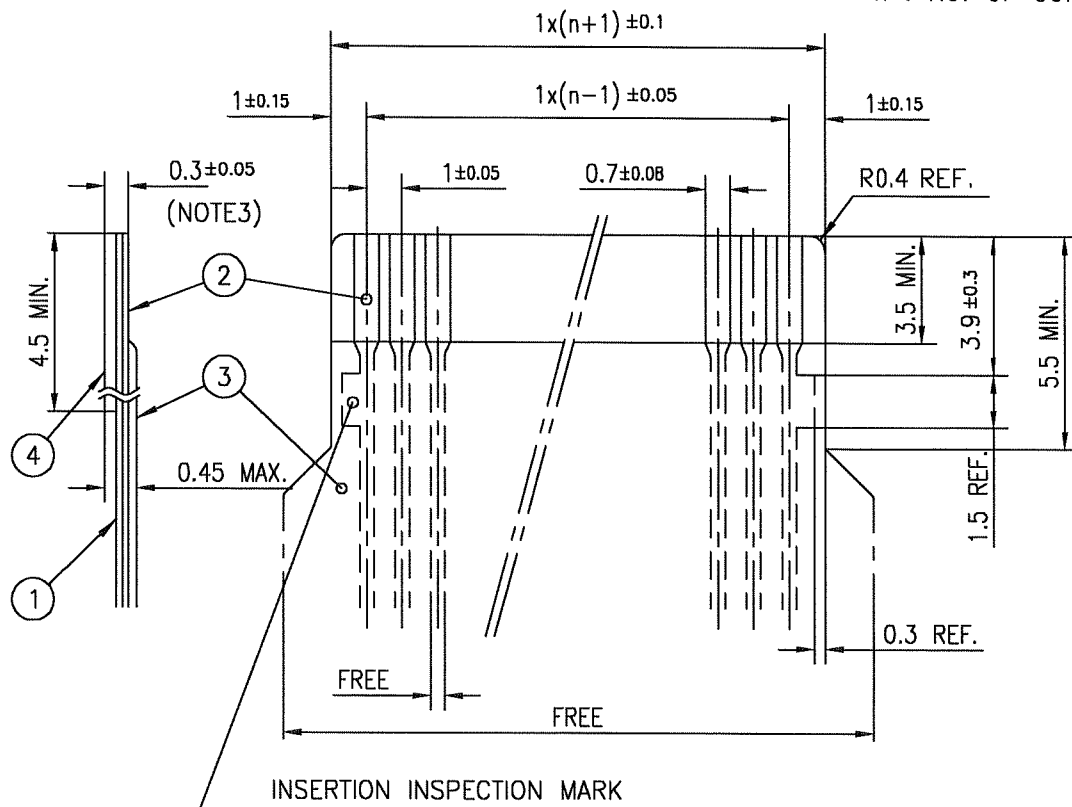


mat'l. code				surface 58 ISO 1302		tolerance ISO 406 ISO 1101		projection 		product family 58QF				CODE JP					
ltr ecn no dr date				tolerances unless otherwise specified								title 1mm SPACING CONNECTOR FOR CIC (Cat. No. HLW__S-6A7LF)							
A J05-0775 H.T 11/16/'05				angles		linear ±0.2													
B J06-0449 H.T 11/2/'06										scale $\propto$									
				dr				11/2/06				dwg no				sheet 1 of 1		size	
				enrg				11/2/06				JSA 96835						A4	
				chr				11/2/06				type Product Customer Drawing							
				appd				11/2/06											
sheet index		revision sheet		B 1														Rev. B	

SC-HLW06, JSA96833
 form: A4

RECOMMENDED CABLE (CIC)

n : NO. OF CONDUCTORS



PT. NO.	DESCRIPTION	MATERIAL	THICKNESS (μm)	
1	BASE FILM	POLYESTER OR EQUIVALENT	75	25
2	CONDUCTOR	CARBON PASTE OVER SILVER PASTE	10 MIN.	
3	OVERLAY	POLYIMIDE OR POLYESTER OR EQUIVALENT	—	
4	SUPPORTING TAPE	POLYESTER OR POLYIMIDE OR EQUIVALENT	188	250

NOTES

1. NO BURR AT EACH PORTION.
2. NO PEELING IN COMMON USE.
3. TOTAL THICKNESS LIMIT OF EACH MATERIAL (INCLUDING ADHESIVE AGENT) IS SPECIFIED.

mat'l. code				surface ISO 1302 ✓		tolerance ISO 406 ISO 1101		projection mm		product family 58PF/QF		CODE JP	
ltr	ecn no	dr	date	tolerances unless otherwise specified				mm		title RECOMMENDED CABLE (CIC) (Cat. No. HLW__R/S-__)			
AA	J05-0270	H.T	5/11/05	angles	linear			scale		dwg no		sheet 1 of 1	size
AB	J06-0449	H.T	11/2/06					X		JSA 93626			A4
				dr	11/2/06		FCI		type		Product Customer Drawing		
				enr	11/2/06								
				chr	11/2/06								
				appd	11/7/06								
sheet index	revision	AB	1									Rev. AB	

form: A4

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2