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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 ✓ ISO 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							
B	J06-0449	H.T	11/2/06			scale $\times$		dwg no sheet 1 of 1 size JSA96829 A4				
				dr	11/2/06							
				enr	11/2/06							
				chr	11/2/06							
				appd	11/2/06							
sheet index	revision sheet	B 1						type Product Customer Drawing				Rev. B

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-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

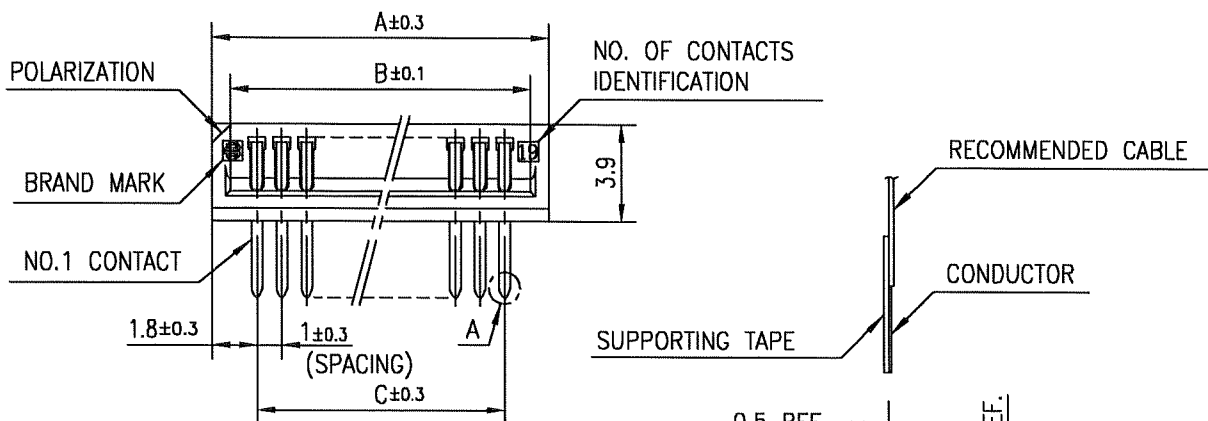
LEAD FREE

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								

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



MATERIAL

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

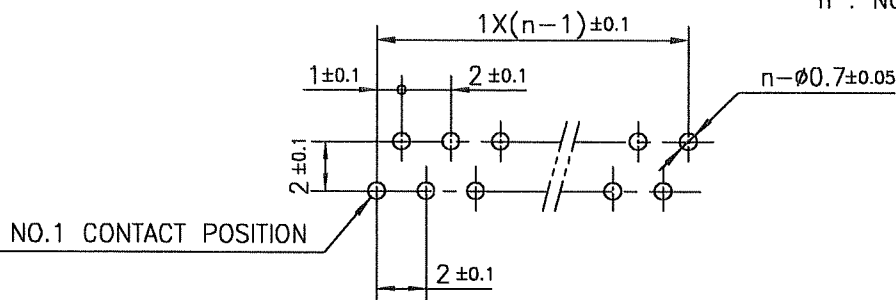
NOTE

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

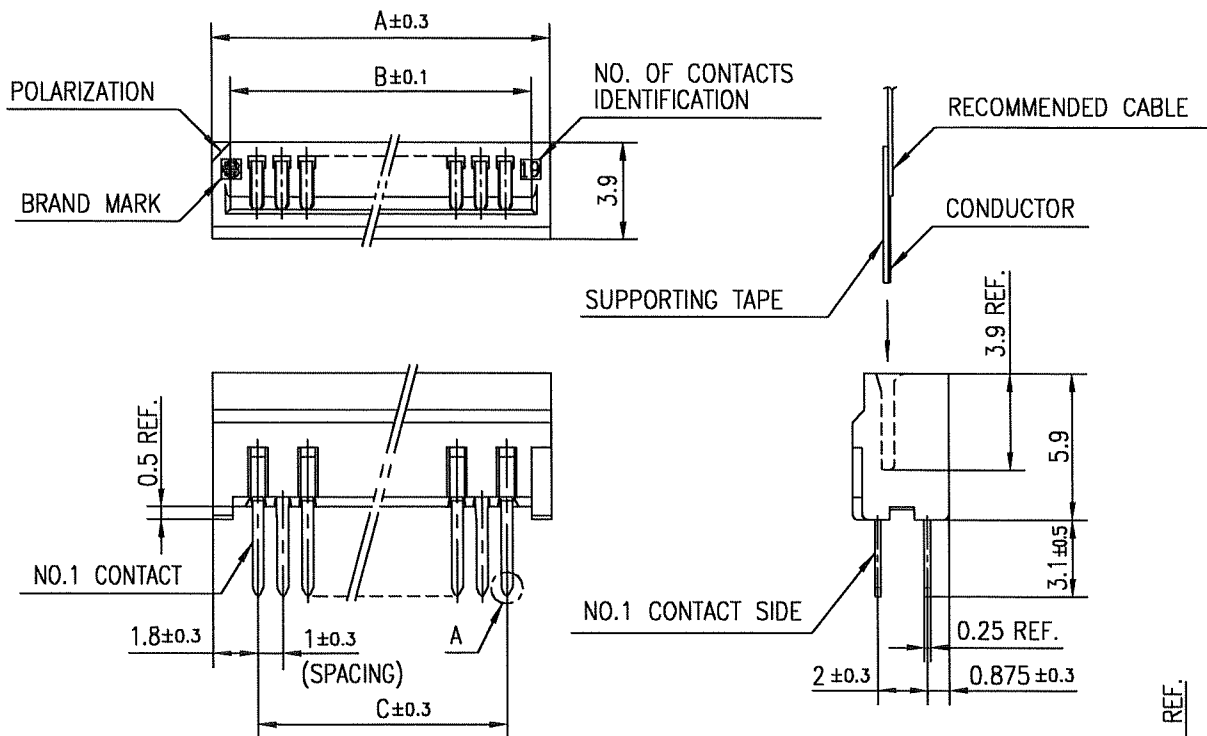
THICKNESS : 1.2~1.6
 HOLE PATTERN (COMPONENT SIDE)

n : NO. OF CONTACTS



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 JSA 96831	
				dr	11/2/06	FCI	sheet 1 of 1 size A4	
				enr	11/2/06		type Product Customer Drawing	
				chr	11/2/06			
				appd	11/2/06			
sheet index	revision	B						Rev. B
	sheet	1						

SC-HLW05, JSA96830
 form: A4



MATERIAL

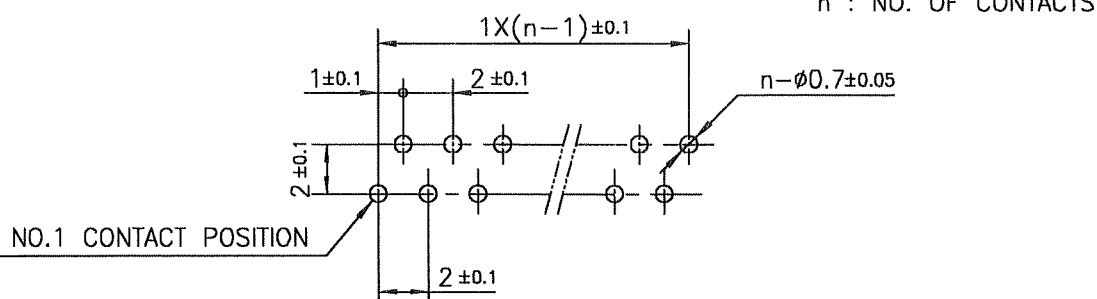
INSULATOR : PBT RESIN GLASS REINFORCED (UL94V-0)
 COLOR : BLACK
 CONTACT : PHOSPHOR BRONZE
 PLATING : TIN

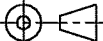
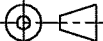
NOTE

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)

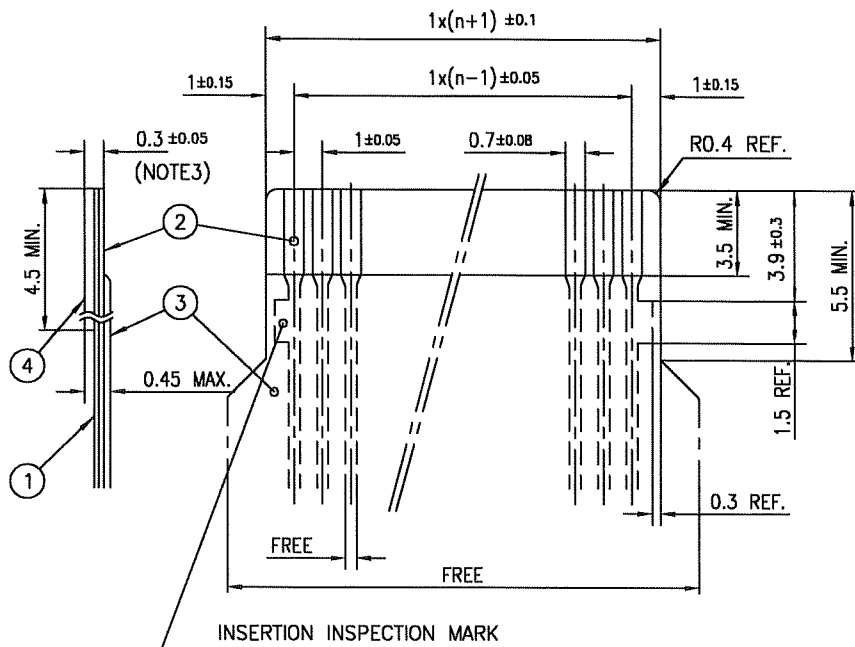


mat'l. code				surface 58 ✓ ISO 1302		tolerance ISO 406 ISO 1101		projection 		product family 58QF						CODE JP	
ltr	ecn no	dr	date	tolerances unless otherwise specified					title 1mm SPACING CONNECTOR FOR FPC/FFC (Cat. No. HLW__S-2A7LF)								
A	J05-0775	H.T	11/16/05	±0.2													
B	J06-0449	H.T	11/2/06	angles	linear			mm 	dwg no sheet 1 of 1 JSA 96832 A4								
								scale X									
				dr	H. Dedering 11/2/06												
				enrg	H. Dedering 11/5/06												
				chr	A. Shown 11/2/06												
				appd	S. Dedering 11/7/06												
sheet index	revision	B								type Product Customer Drawing						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

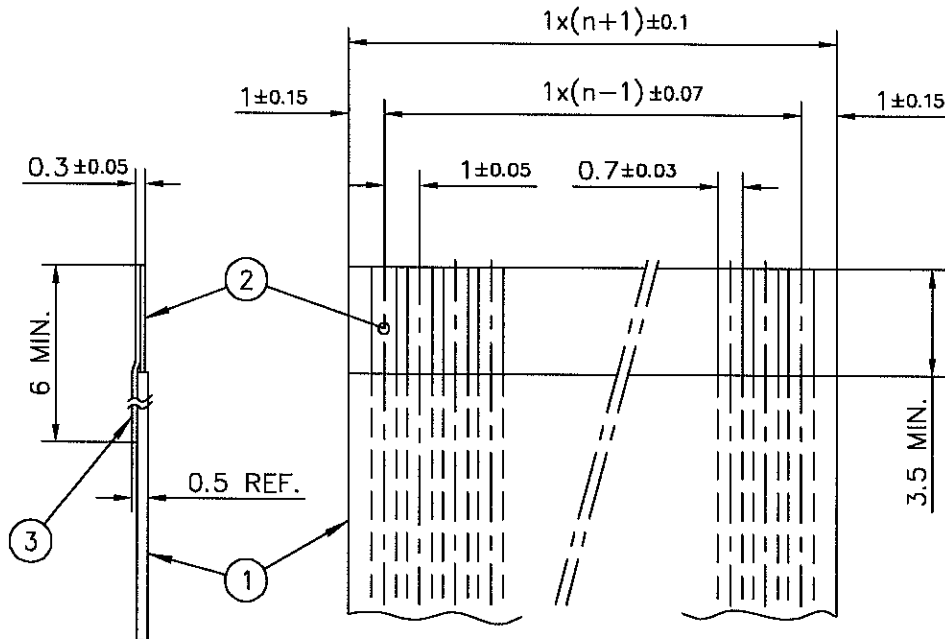
NOTES

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		mm		title			
AA	J05-0270	H.T	5/11/05	angles linear		mm		RECOMMENDED CABLE (FPC)			
AB	J06-0449	H.T	11/2/06			scale X		(Cat. No. HLW__R/S-__)			
				dr		FCI		dwg no		sheet 1 of 1 size	
				engr				JSA 93382		A4	
				chr				type Product Customer Drawing			
				appd							
sheet index		revision sheet		AB 1						Rev. AB	

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 1μm 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/ISO 1302		tolerance ISO 406 ISO 1101		projection		product family 58PF/QF		CODE JP	
litr	ecn no	dr	date	tolerances unless otherwise specified				mm		title			
AA	J05-0270	H.T	5/11/05							RECOMMENDED CABLE (FFC)			
AB	J06-0449	H.T	11/2/06	angles linear						(Cat. No. HLW_R/S-___)			
				dr		11/2/06		scale X		dwg no sheet 1 of 1 size			
				enrg		11/2/06		FCI		JSA 93383 A4			
				chr		11/2/06				type Product Customer Drawing			
				appd		11/2/06							
sheet index		revision sheet		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

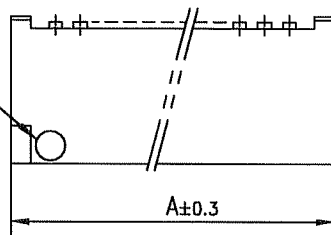
NOTES

1. SEE PART DRAWINGS FOR DIMENSIONS A~C.

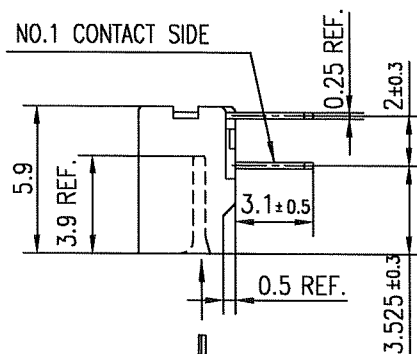
mat'l. code				surface 58 / tolerance ISO 406 / ISO 1101		projection		product family 58PF/QF		CODE JP	
ltr	ecn no	dr	date	tolerances unless otherwise specified				title CAT NO. TABLE FOR 1mm SPACING CONNECTOR (Cat. No. HLW__R/S-6A7LF)			
A	J05-0775	H.T	11/16/05	angles	linear	mm					
B	J06-0449	H.T	11/2/06			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
form: A4

CIC MARK



NO.1 CONTACT SIDE



POLARIZATION

B±0.1

BRAND MARK

NO.1 CONTACT

NO. OF CONTACTS IDENTIFICATION

1.8±0.3
1±0.3
(SPACING)

C±0.3

CONDUCTOR

SUPPORTING TAPE

RECOMMENDED CABLE

MATERIAL

INSULATOR : PBT RESIN GLASS REINFORCED (UL94V-0)

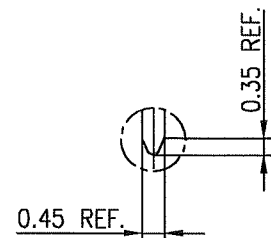
COLOR : BLACK

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.



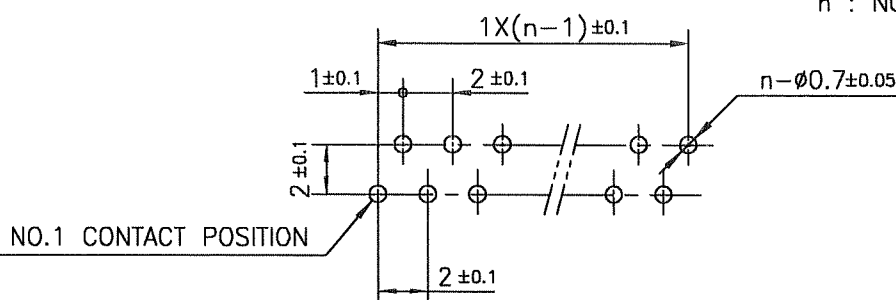
DETAIL A

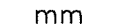
RECOMMENDED PC BOARD

THICKNESS : 1.2~1.6

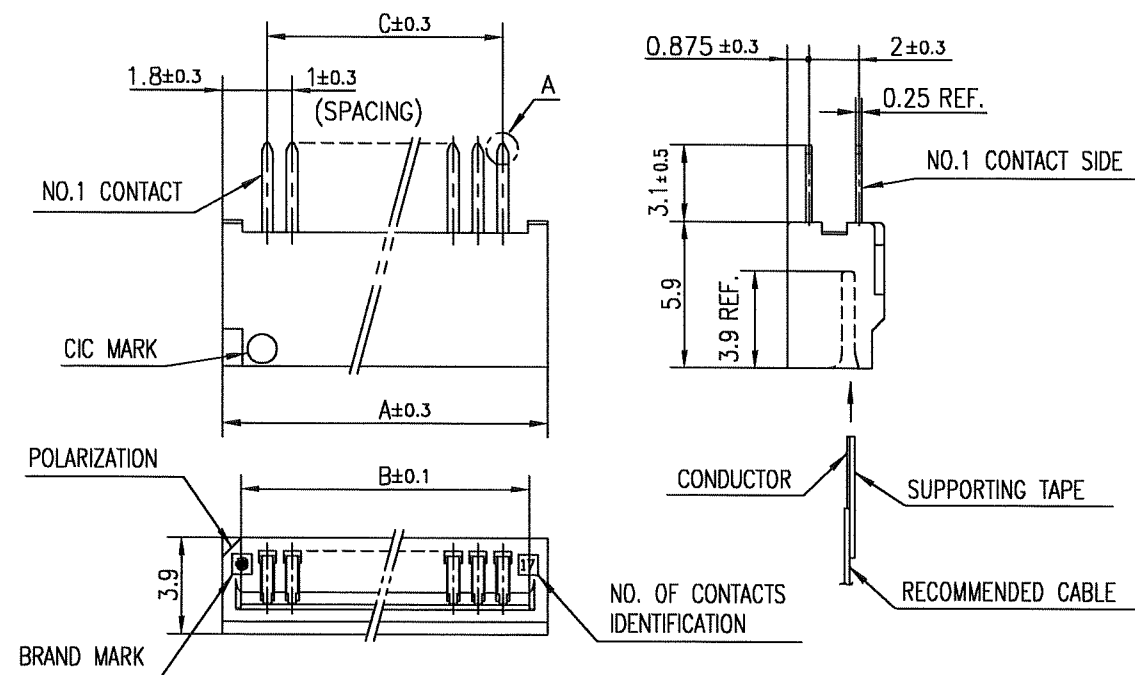
HOLE PATTERN (COMPONENT SIDE)

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						title 1mm SPACING CONNECTOR FOR CIC (Cat. No. HLW__R-6A7LF)									
A	J05-0775	H.T	11/16/'05	angles		linear											±0.2		
B	J06-0449	H.T	11/2/'06							scale $\propto$									
				dr	<i>Handwritten signature</i>		<i>11/2/06</i>				dwg no						sheet 1 of 1		size
				enr	<i>Handwritten signature</i>		<i>11/2/06</i>				JSA 96834						A4		
				chr	<i>Handwritten signature</i>		<i>11/2/06</i>												
				appd	<i>Handwritten signature</i>		<i>11/17/06</i>												
sheet index		revision		B													Rev. B		
		sheet		1															

SC-HLW06, JSA96833
form: A4



MATERIAL

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

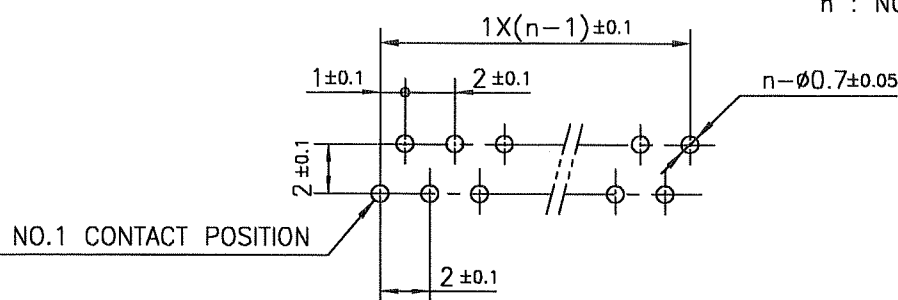
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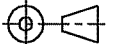
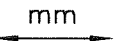
1. THIS PRODUCT IS RIGHT ANGLE TYPE CONNECTOR.
2. THIS PRODUCT MEETS EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-22-008.
3. THE HOUSING WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 10 SECONDS IN A WAVE SOLDER APPLICATION WITH A 1.6mm THICK CIRCUIT BOARD.

RECOMMENDED PC BOARD

THICKNESS : 1.2~1.6
 HOLE PATTERN (COMPONENT SIDE)

n : NO. OF CONTACTS

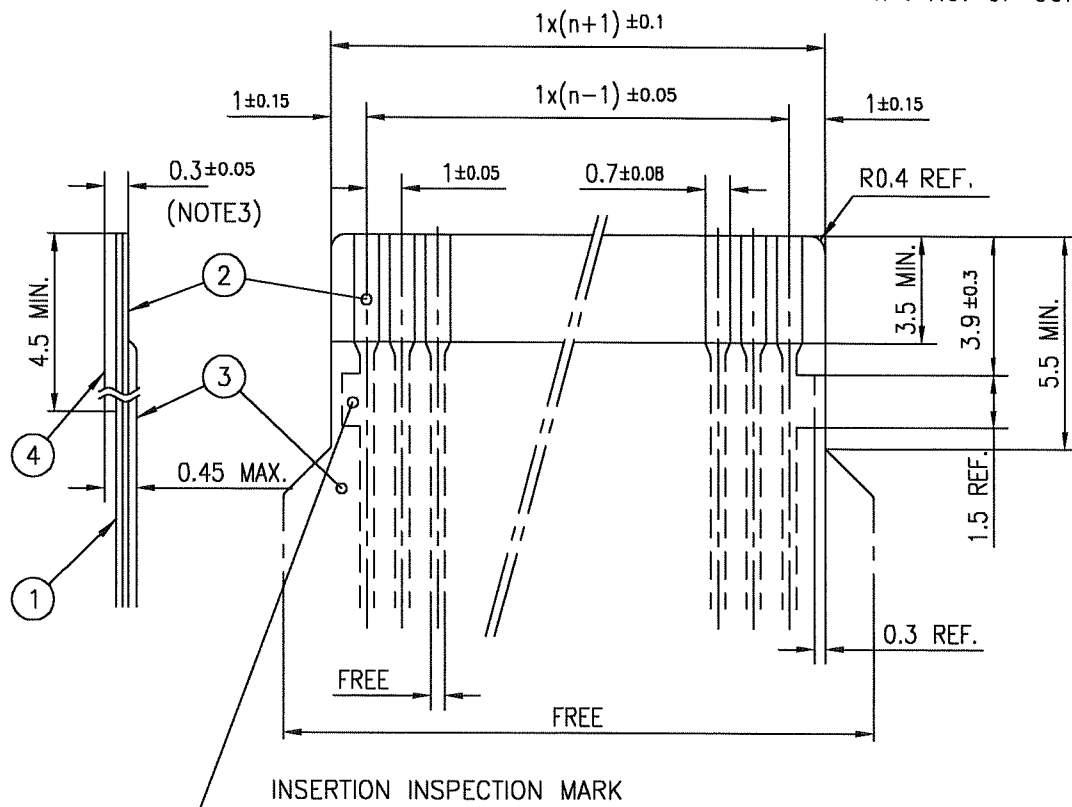


mat'l. code				surface 58 ✓ ISO 1302				tolerance ISO 406 ISO 1101		projection 		product family 58QF				CODE JP	
ltr	ecn no	dr	date	tolerances unless otherwise specified								title 1mm SPACING CONNECTOR FOR CIC (Cat. No. HLW__S-6A7LF)					
A	J05-0775	H.T	11/16/'05	angles		linear ±0.2											
B	J06-0449	H.T	11/2/'06							scale X		dwg no sheet 1 of 1 size JSA 96835 A4					
																	
				dr		11/2/06											
				engr		11/2/06											
				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		angles		linear		title RECOMMENDED CABLE (CIC) (Cat. No. HLW__R/S-__)			
AA	J05-0270	H.T	5/11/05										
AB	J06-0449	H.T	11/2/06										
				dr		11/2/06		scale		X			
				enr		11/2/06		FCI		dwg no		sheet 1 of 1	
				chr		11/2/06				JSA 93626		size A4	
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