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CONFIGURATION OF CUSTOMER DOCUMENTS

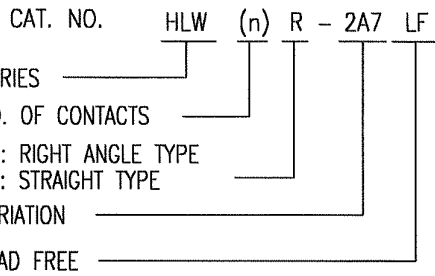
P/N	DOCUMENTS	DWG. NO.	TITLE
HLW__R/S-2A7LF	SPEC	SC-HLW05	CONNECTOR USED FOR FPC/FFC WITH 1mm CONTACT SPACING
	CONNECTOR	JSA96830	CAT NO.TABLE FOR 1mm SPACING CONNECTOR
		JSA96831	1mm SPACING CONNECTOR FOR FPC/FFC
		JSA96832	1mm SPACING CONNECTOR FOR FPC/FFC
CABLE	JSA93382	RECOMMENDED CABLE(FPC)	
	JSA93383	RECOMMENDED CABLE(FFC)	
	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		mm		title				
A	J05-0775	H.T	11/16/05	angles	linear			1mm SPACING CONNECTOR DOCUMENT LIST (Cat. No. HLW__R/S-2/6A7LF)				
B	J06-0449	H.T	11/2/06			scale X		dwg no		sheet 1 of 1		
				dr	engr		FCI		JSA96829		size A4	
				chr	appd				type Product Customer Drawing			
sheet index	revision sheet	B	1									Rev. B

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

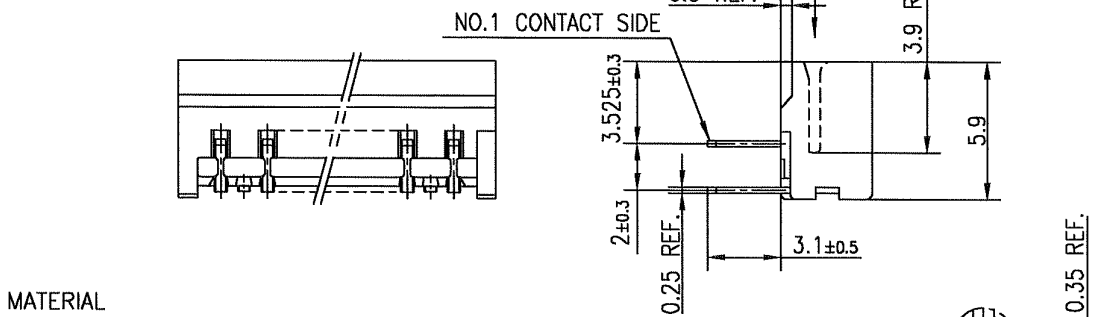
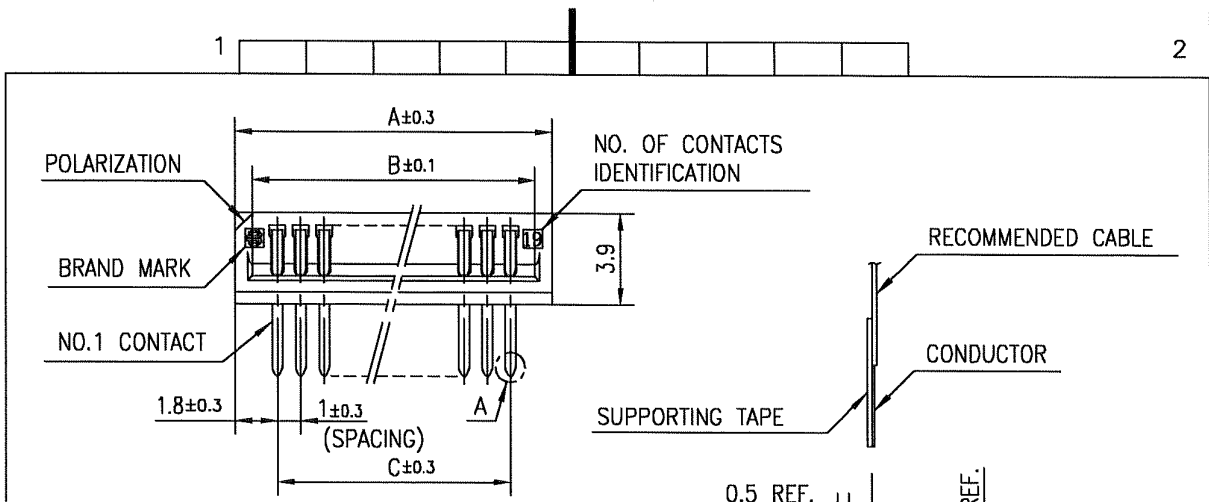


NOTES

1. SEE PART DRAWINGS FOR DIMENSIONS A~C.

mat'l. code				surface ⁵⁸ / ISO 1302	tolerance ISO 406 / ISO 1101	projection	product family 58PF/QF	CODE JP	
ltr	ecn no	dr	date	tolerances unless otherwise specified			title		
A	J05-0775	H.T	11/16/05	angles	linear		CAT NO. TABLE FOR 1mm SPACING CONNECTOR (Cat. No. HLW__R/S-2A7LF)		
B	J06-0449	H.T	11/2/05			scale X	dwg no	sheet 1 of 1	
				dr			JSA 96830		
				engr			type Product Customer Drawing		
				chr					size A4
				appd					
sheet index	revision sheet	B	1					Rev B	

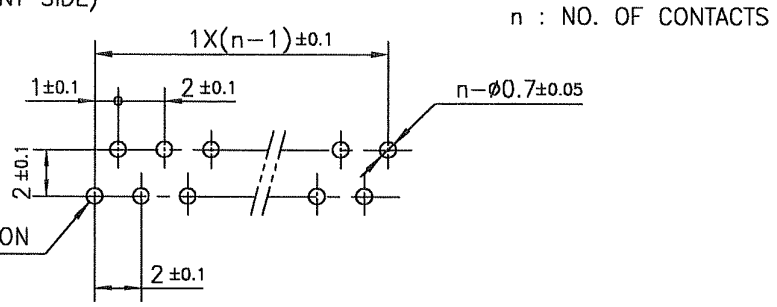
SC-HLW05, JSA96831,96832,93382,93383 form: A4



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)



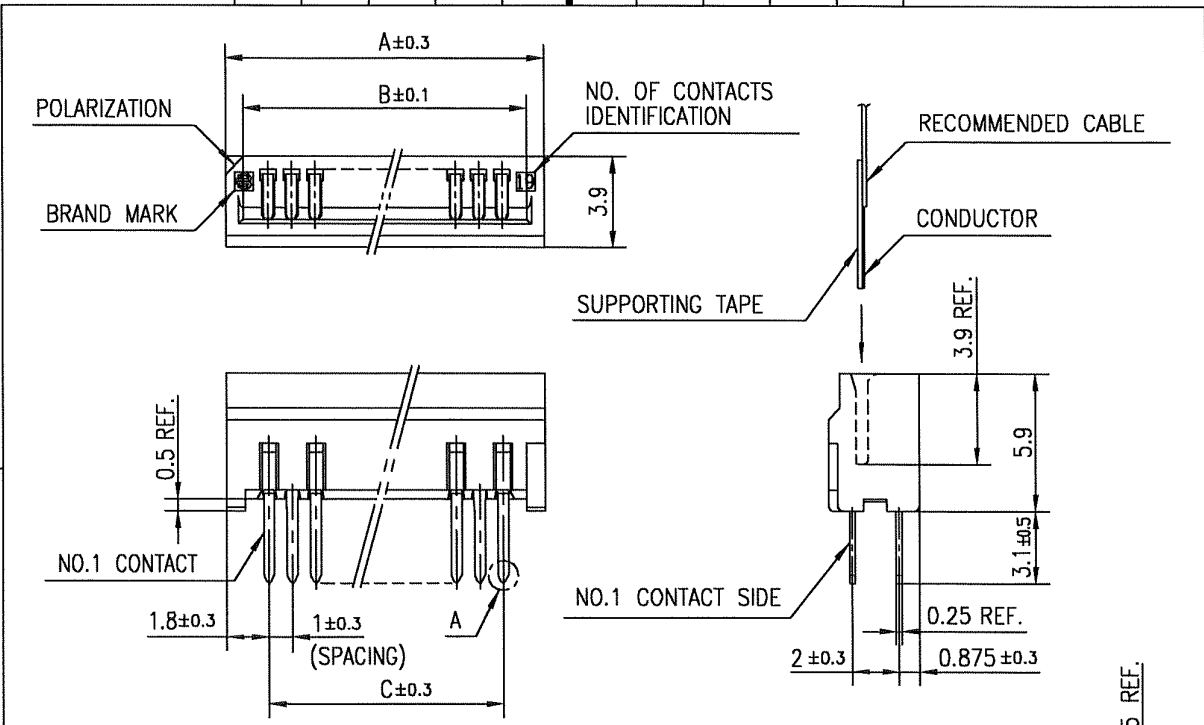
mat'l. code				surface ISO 1302 ✓		tolerance ISO 406 ISO 1101		projection mm		product family 58PF		CODE JP		
ltr	ecn no	dr	date	tolerances unless otherwise specified				mm		title 1mm SPACING CONNECTOR FOR FPC/FFC (Cat. No. HLW__R-2A7LF)				
A	J05-0775	H.T	11/16/05	angles		±0.2		mm		dwg no		sheet 1 of 1		
B	J06-0449	H.T	11/2/06	linear				scale X		JSA 96831		size A4		
				dr	11/2/06				dwg no		sheet 1 of 1		size	
				enr	11/2/06				JSA 96831		A4			
				chr	11/2/06				type		Product Customer Drawing			
				appd	11/2/06									
sheet index		revision sheet		B	1								Rev. B	

SC-HLW05, JSA96830
form: A4



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MATERIAL

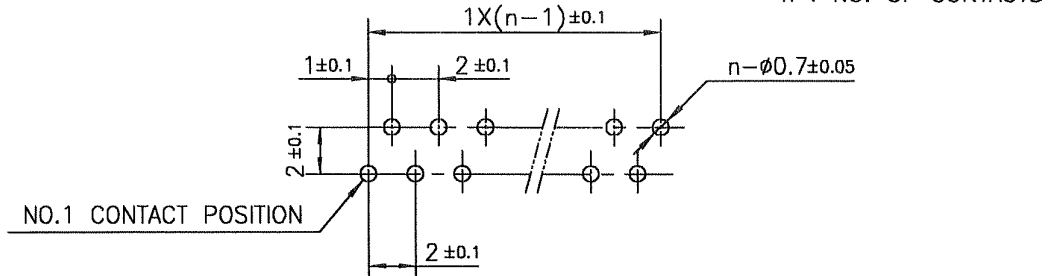
INSULATOR : PBT RESIN GLASS REINFORCED (UL94V-0)
 COLOR : BLACK
 CONTACT : PHOSPHER BRONZE
 PLATING : TIN

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 5B	tolerance ISO 1302	projection	product family 58QF	CODE JP
ltr	ecn no	dr	date	ISO 406	ISO 1101	mm	title 1mm SPACING CONNECTOR FOR FPC/FFC (Cat. No. HLW__S-2A7LF)	
A	J05-0775	H.T	11/16/05	tolerances unless otherwise specified	±0.2			
B	J06-0449	H.T	11/2/06	angles	linear	scale X	dwg no sheet 1 of 1 size	
				dr	engr		JSA 96832	
				chr	appd		type Product Customer Drawing	
sheet index	revision sheet	B	1					Rev B

SC-HLW05, JSA96830
 form: A4

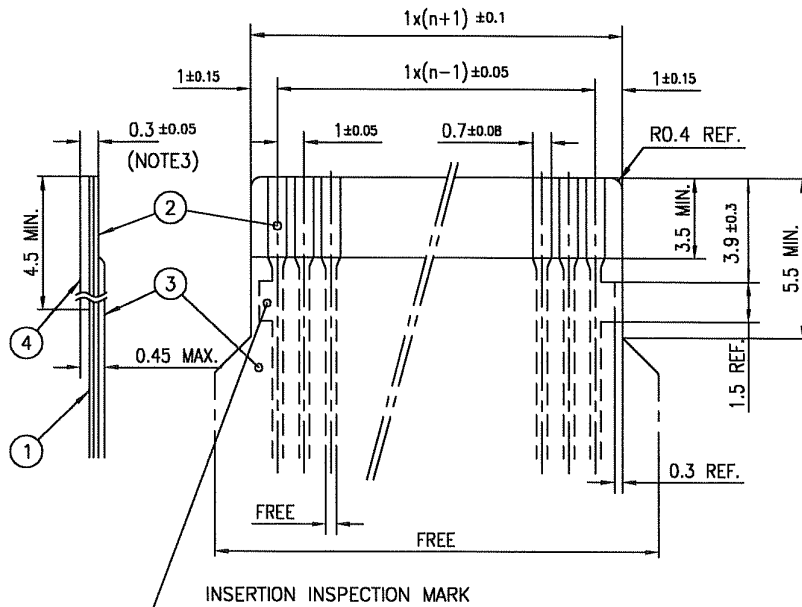


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RECOMMENDED CABLE (FPC)

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 $1\mu\text{m}$ 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	engr	FCJ		dwg no		sheet 1 of 1	
				chr	appd			JSA 93382		size A4	
								type Product Customer Drawing			
sheet index	revision sheet	AB	1								Rev. AB



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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-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

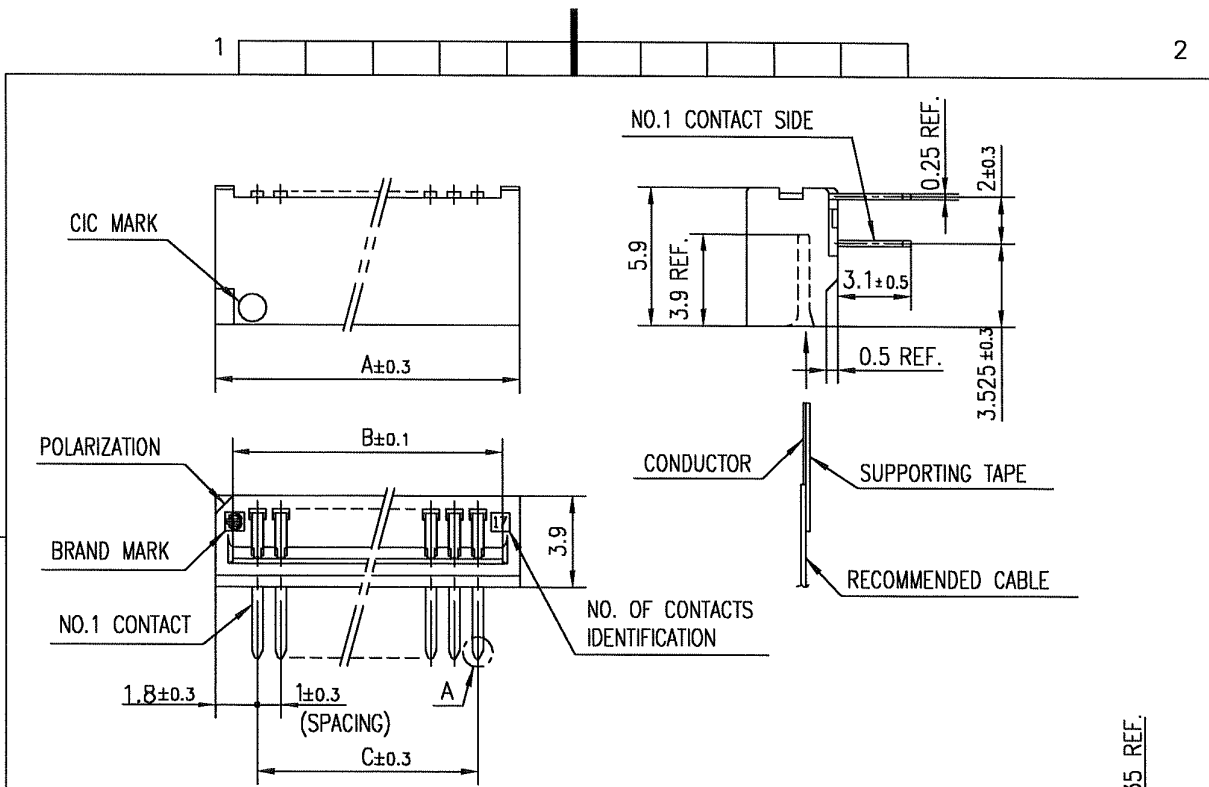
SERIES _____
 NO. OF CONTACTS _____
 R : RIGHT ANGLE TYPE
 S : STRAIGHT TYPE
 VARIATION _____
 LEAD FREE _____

NOTES

1. SEE PART DRAWINGS FOR DIMENSIONS A~C.

mat'l. code				surface 58 / tolerance ISO 1302 ✓ / ISO 406 / ISO 1101		projection		product family 58PF/QF		CODE JP	
tolerances unless otherwise specified				angles linear		mm		title CAT NO. TABLE FOR 1mm SPACING CONNECTOR (Cat. No. HLW__R/S-6A7LF)			
dr 11/16/05				engr 11/2/06		scale X		dwg no JSA 96833		sheet 1 of 1 size A4	
revision B 1				chr R. Shawe 11/2/06		FCJ		type Product Customer Drawing			
sheet index				appd S. D. ... 11/17/06				Rev. B			

SC-HLW06, JSA96834,96835,93626 form: A4



MATERIAL

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

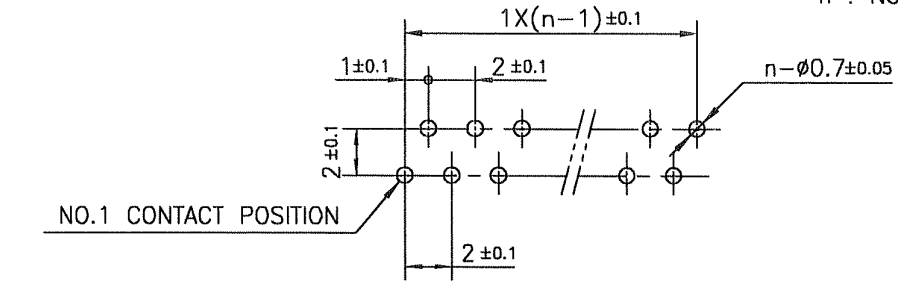
NOTE

- 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 BORAD

THICKNESS : 1.2~1.6
 HOLE PATTERN (COMPONENT SIDE)

n : NO. OF CONTACTS



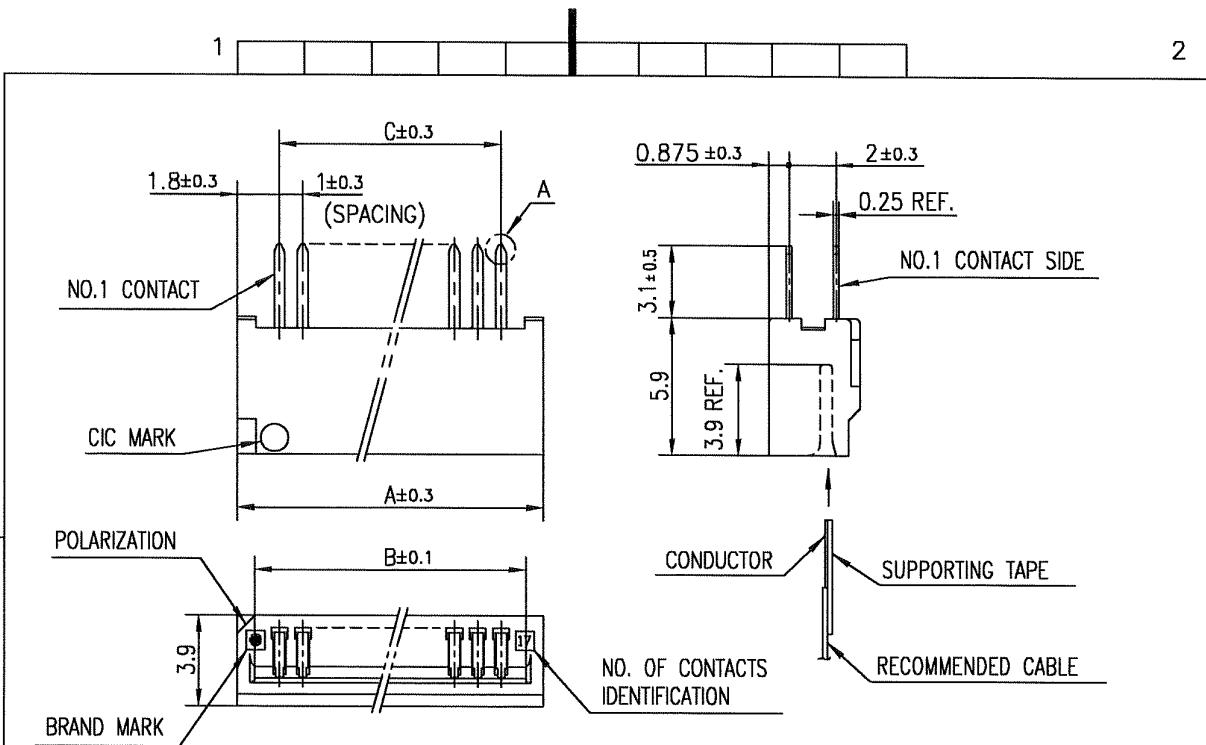
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ltr	ecn no	dr	date	tolerances unless otherwise specified		±0.2		mm		title 1mm SPACING CONNECTOR FOR CIC (Cat. No. HLW__R-6A7LF)			
A	J05-0775	H.T	11/16/05	angles	linear		scale X		dwg no JSA 96834		sheet 1 of 1 size A4		
B	J06-0449	H.T	11/2/06					FCJ		type Product Customer Drawing			
sheet index		revision sheet		B 1								Rev. B	

SC-HLW06, JSA96833
 form: A4



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MATERIAL

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

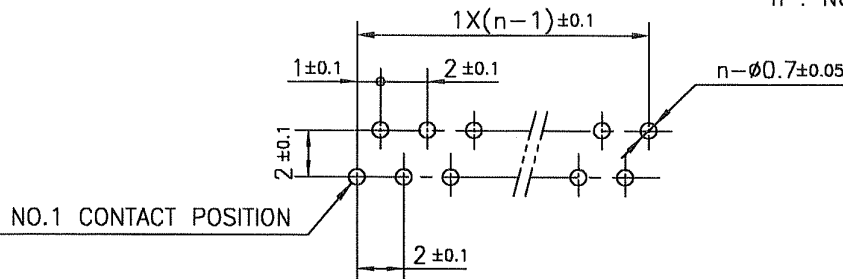
NOTE

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 BORAD

THICKNESS : 1.2~1.6
 HOLE PATTERN (COMPONENT SIDE)

n : NO. OF CONTACTS

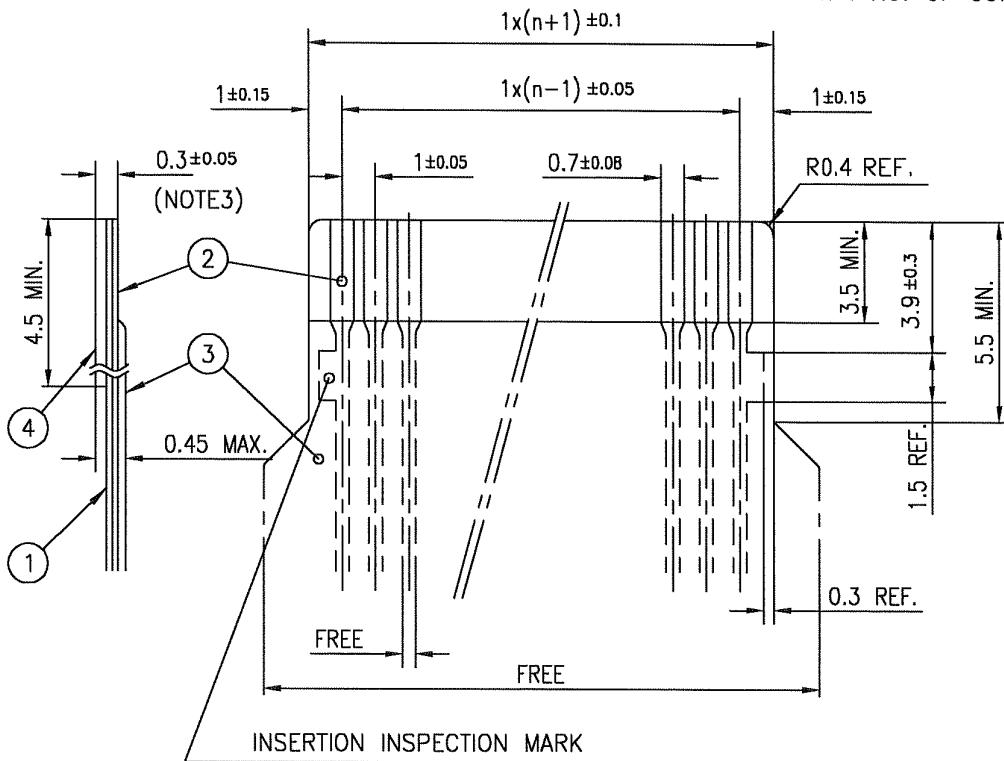


mat'l. code				surface 58 ISO 1302		tolerance ISO 406 ISO 1101		projection		product family 58QF		CODE JP	
ltr	ecn no	dr	date	tolerances unless otherwise specified				mm		title			
A	J05-0775	H.T	11/16/05	angles		±0.2		mm		1mm SPACING CONNECTOR FOR CIC (Cat. No. HLW__S-6A7LF)			
B	J06-0449	H.T	11/2/06	linear				scale X					
				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 ⊕	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		dwg no JSA 93626	
AB	J06-0449	H.T	11/2/06			scale X	sheet 1 of 1	size A4
				dr	11/2/06	FCJ	type Product Customer Drawing	
				enr	11/2/06		sheet 1 of 1	
				chr	11/2/06		size A4	
				appd	11/7/06		Rev. AB	
sheet index	revision sheet	AB	1					

form: A4