REVISIONS				
REV	DESCRIPTION	ECN	BY	DATE
A	RELEASED	J05-0270	H.T	5/10/'05

CAT. NO. & DIMENSIONS

NO. OF CONTACTS (n)	CAT. NO.		DIMENSIONS (NOTE1)		
	RIGHT ANGLE TYPE	STRAIGHT TYPE	A ± 0.3	B ± 0.1	C
4	HLW 4R-2C7LF	HLW 4S-2C7LF	6.6	5.12	3.0
5	HLW 5R-2C7LF	HLW 5S-2C7LF	7.6	6.12	4.0
6	HLW 6R-2C7LF	HLW 6S-2C7LF	8.6	7.12	5.0
7	HLW 7R-2C7LF	HLW 7S-2C7LF	9.6	8.12	6.0
8	HLW 8R-2C7LF	HLW 8S-2C7LF	10.6	9.12	7.0
9	HLW 9R-2C7LF	HLW 9S-2C7LF	11.6	10.12	8.0
10	HLW 10R-2C7LF	HLW 10S-2C7LF	12.6	11.12	9.0
11	HLW 11R-2C7LF	HLW 11S-2C7LF	13.6	12.12	10.0
12	HLW12R-2C7LF	HLW12S-2C7LF	14.6	13.12	11.0
13	HLW13R-2C7LF	HLW13S-2C7LF	15.6	14.12	12.0
14	HLW14R-2C7LF	HLW14S-2C7LF	16.6	15.12	13.0
15	HLW15R-2C7LF	HLW15S-2C7LF	17.6	16.12	14.0
16	HLW16R-2C7LF	HLW16S-2C7LF	18.6	17.12	15.0
17	HLW17R-2C7LF	HLW17S-2C7LF	19.6	18.12	16.0
18	HLW18R-2C7LF	HLW18S-2C7LF	20.6	19.12	17.0
19	HLW19R-2C7LF	HLW19S-2C7LF	21.6	20.12	18.0
20	HLW20R-2C7LF	HLW20S-2C7LF	22.6	21.12	19.0
21	HLW21R-2C7LF	HLW21S-2C7LF	23.6	22.12	20.0
22	HLW22R-2C7LF	HLW22S-2C7LF	24.6	23.12	21.0
23	HLW23R-2C7LF	HLW23S-2C7LF	25.6	24.12	22.0
24	HLW24R-2C7LF	HLW24S-2C7LF	26.6	25.12	23.0
25	HLW25R-2C7LF	HLW25S-2C7LF	27.6	26.12	24.0
26	HLW26R-2C7LF	HLW26S-2C7LF	28.6	27.12	25.0
27	HLW27R-2C7LF	HLW27S-2C7LF	29.6	28.12	26.0
28	HLW28R-2C7LF	HLW28S-2C7LF	30.6	29.12	27.0
29	HLW29R-2C7LF	HLW29S-2C7LF	31.6	30.12	28.0
30	HLW30R-2C7LF	HLW30S-2C7LF	32.6	31.12	29.0
31	HLW31R-2C7LF	HLW31S-2C7LF	33.6	32.12	30.0
32	HLW32R-2C7LF	HLW32S-2C7LF	34.6	33.12	31.0

CAT. NO. HLW (n) R - 2C7 LF

- SERIES — HLW
- NO. OF CONTACTS — (n)
- R : RIGHT ANGLE TYPE / S : STRAIGHT TYPE — R
- VARIATION — 2C7
- LEAD FREE — LF

NOTES

1. SEE PART DRAWINGS FOR DIMENSIONS A~C.

SHEET INDEX	ISSUE	A
	SH NO.	1

TOLERANCES UNLESS OTHERWISE SPECIFIED		
LINEAR		
ANGLES		

	NAME	DATE
DR	T. Sasaki	5/11/'05
ENGR	H. Takahashi	5/13/'05
CHK	H. Takahashi	5/13/'05
APPD	M. Hasegawa	5/13/'05

CUSTOMER COPY

THIRD ANGLE PROJ

UNIT MM ~~INCH~~

FCI

TITLE: CAT NO. TABLE FOR 1mm SPACING CONNECTOR (Cat. No. : HLW__R/S-2C7LF)

PRODUCT FAMILY	CODE
58JF	JP

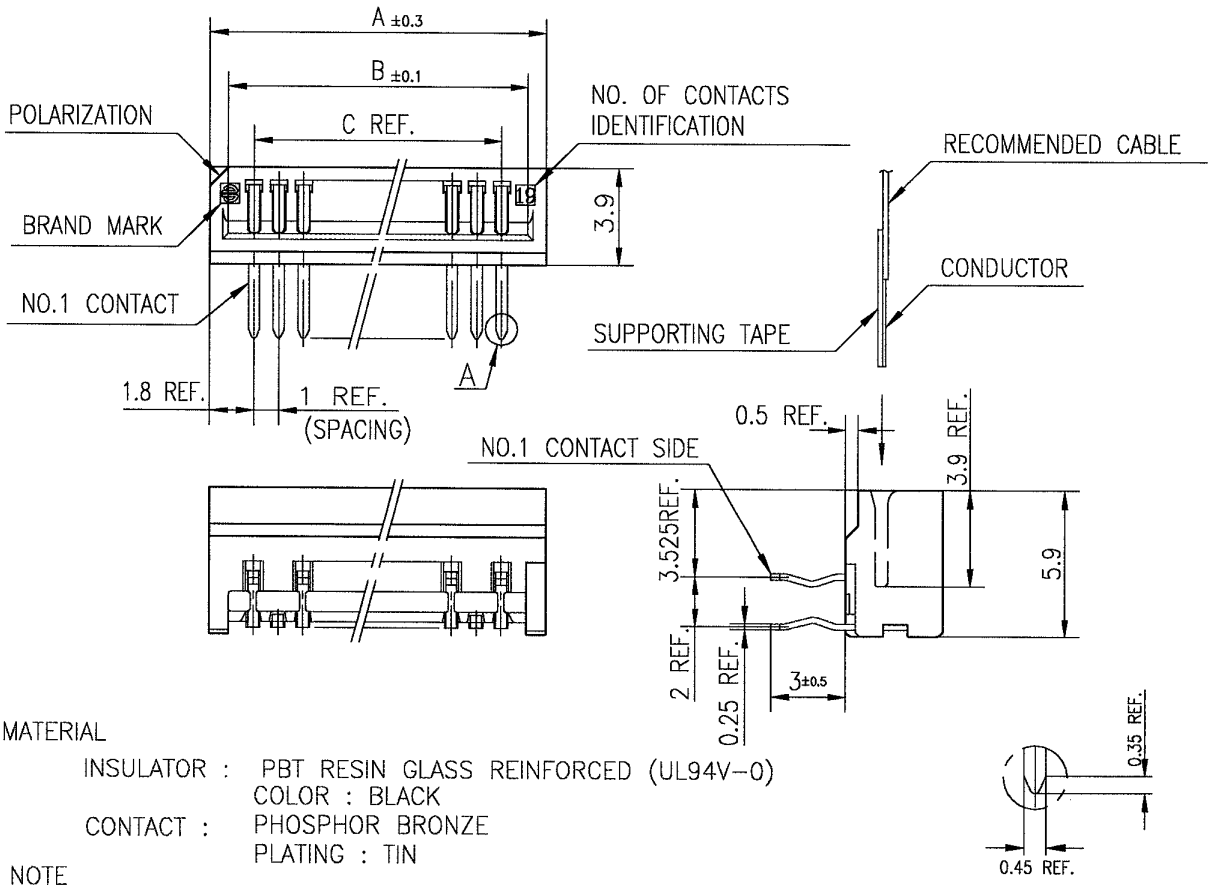
SCALE	SIZE	DWG. NO.	REV	SHEET
mm	X	JSA 96403	A	1 OF 1

DO NOT SCALE PRINT

DF-140A REV A

SC-HLW05 JSA96405 96406 93382 93383

REVISIONS				
REV	DESCRIPTION	ECN	BY	DATE
A	RELEASED	J05-0270	H.T	5/10/'05
B	Added heat resistance	J05-0735	H.T	10/28/'05



DETAIL A

MATERIAL

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

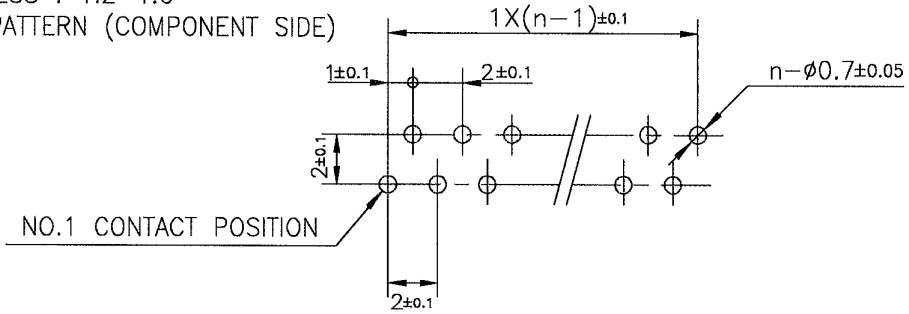
NOTE

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 BORAD

THICKNESS : 1.2~1.6
HOLE PATTERN (COMPONENT SIDE)

n : NO. OF CONTACTS



SHEET INDEX	ISSUE	B
	SH NO.	1

TOLERANCES UNLESS OTHERWISE SPECIFIED		DR	DATE	CUSTOMER COPY
LINEAR	±0.2	ENGR	10/3/'05	
		CHK	10/3/'05	THIRD ANGLE PROJ
ANGLES		APPD	10/3/'05	UNIT MM ~~INCH~~

FCI

TITLE: 1mm SPACING CONNECTOR FOR FPC/FFC (Cat. No. :HLW___R-2C7LF)

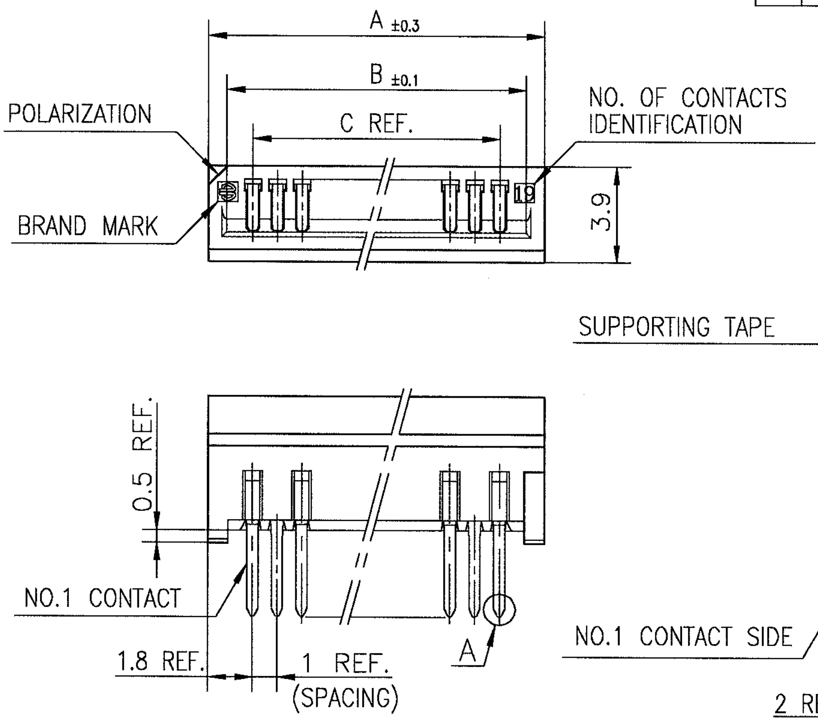
PRODUCT FAMILY: 58JF — CODE: JP

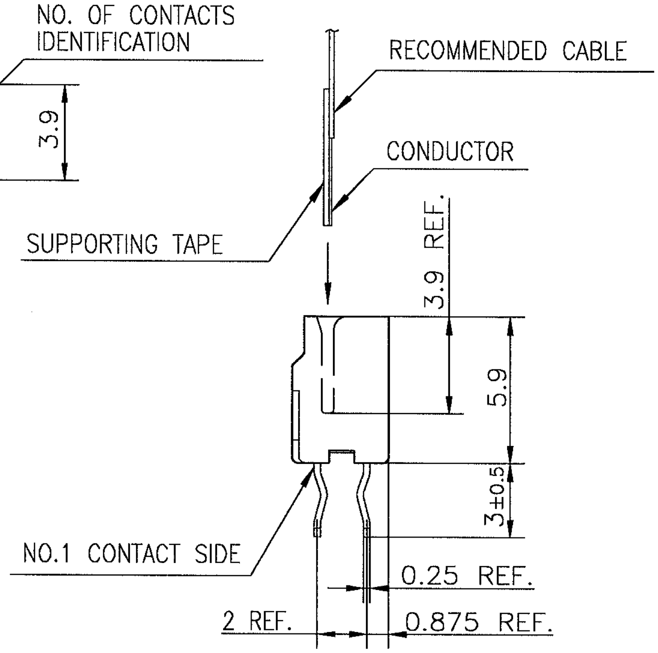
SCALE	SIZE	DWG. NO.	REV	SHEET
X	A	JSA 96405	B	1 OF 1

SC-HLW05 JSA96403

PDM: Rev:B STATUS:Released Printed: Nov 29, 2005

REVISIONS				
REV	DESCRIPTION	ECN	BY	DATE
A	RELEASED	J05-0270	H.T	5/10/'05
B	Added heat resistance	J05-0735	H.T	10/28/'05





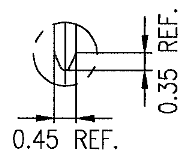
MATERIAL

INSULATOR : PBT RESIN GLASS REINFORCED (UL94V-0)

COLOR : BLACK

CONTACT : PHOSPHOR BRONZE

PLATING : TIN



DETAIL A

NOTE 1.THIS PRODUCT IS STRAIGHT TYPE CONNECTOR.

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

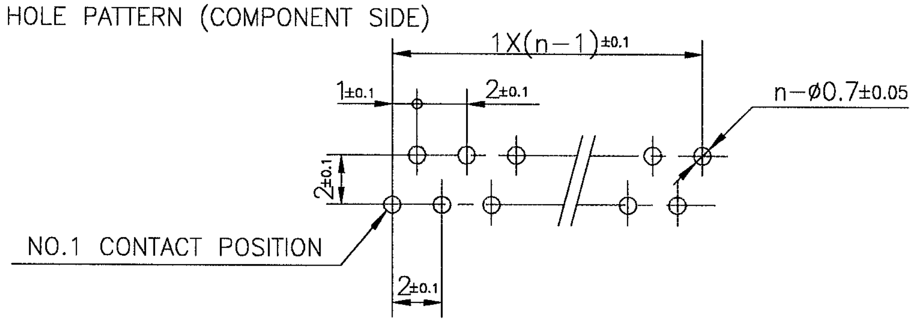
3.THE HOUSING WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 10 SECONDS IN A WAVE SOLDER APPLICATION WITH A 1.6mm THICK CIRCUIT BOARD.

RECOMMENDED PC BORAD

n : NO. OF CONTACTS

THICKNESS : 1.2~1.6

HOLE PATTERN (COMPONENT SIDE)



SHEET INDEX	ISSUE	B		FCI
	SH NO.	1		
TOLERANCES UNLESS OTHERWISE SPECIFIED		DR [signature] DATE 10/28/'05	CUSTOMER COPY	TITLE 1mm SPACING CONNECTOR FOR FPC/FFC (Cat. No. :HLW__S-2C7LF)
LINEAR	±0.2	ENGR [signature] 10/31/'05		
		CHK [signature] 10/31/'05	THIRD ANGLE PROJ	
ANGLES		APPD [signature] 11/1/'05	UNIT MM ~~INCH~~	PRODUCT FAMILY 58JF — CODE JP
DO NOT SCALE PRINT		THIS INFORMATION IS CONFIDENTIAL AND IS DISCLOSED TO YOU ON CONDITION THAT NO FURTHER DISCLOSURE IS MADE BY YOU TO OTHER THAN FCI PERSONNEL WITHOUT WRITTEN AUTHORIZATION FROM FCI JAPAN K.K.		SCALE X — SIZE A — DWG. NO. JSA 96406 — REV B — SHEET 1 OF 1

DF-140A REV A

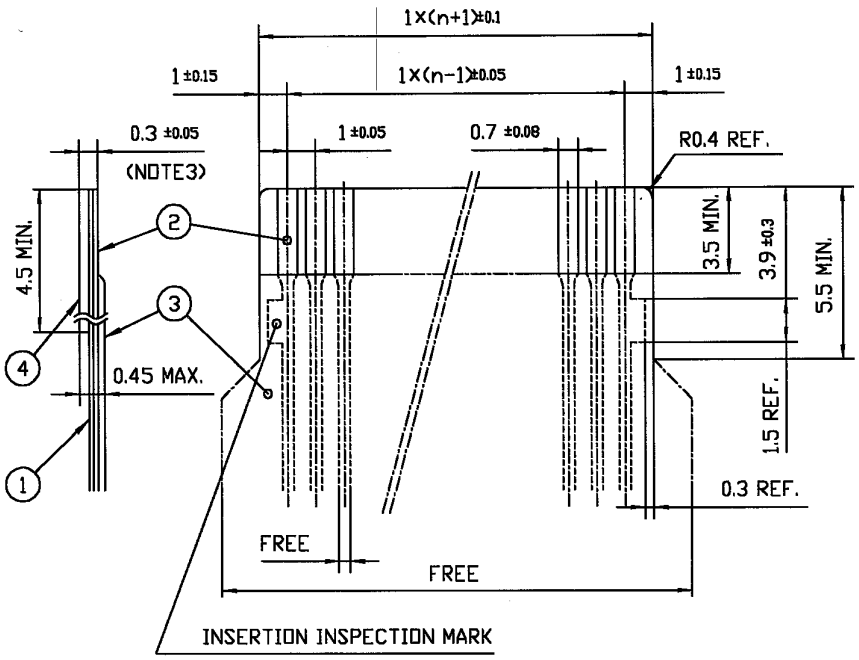
SC-HLW05 JSA96403

PDM: Rev:B STATUS:Released Printed: Nov 29, 2005

REVISIONS				
REV	DESCRIPTION	ECN	BY	DATE
AA	Changed form	J05-0270	H.T	5/11/'05

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 POLYMIDE 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.

SHEET INDEX	ISSUE	AA
	SH NO.	1

TOLERANCES UNLESS OTHERWISE SPECIFIED

LINEAR

ANGLES

DR T. Sasaki DATE 5/11/'05

ENGR H. Takahara 5/13/05

CHK H. Takahara 5/13/05

APPD M. Hasegawa 5/12/05

CUSTOMER COPY

THIRD ANGLE PROJ

UNIT MM ~~INCH~~

FCI

TITLE

RECOMMENDED CABLE (FPC)
(Cat. No. HLW__R/S-___)

PRODUCT FAMILY 58JF

CODE JP

DO NOT SCALE PRINT

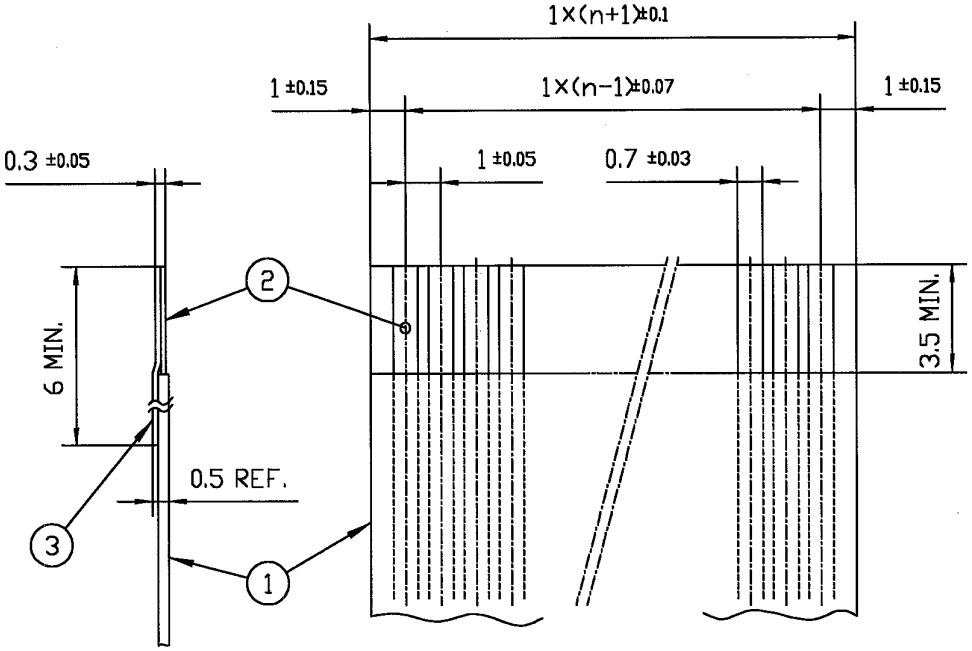
DF-140A REV A

SCALE	SIZE	DWG. NO.	REV	SHEET
4/1	A	JSA93382	AA	OF

REVISIONS				
REV	DESCRIPTION	ECN	BY	DATE
AA	Changed form	J05-0274	H.T	5/11/'05

RECOMMENDED CABLE (FFC)

n : NO. OF CONDUCTORS



PT. NO.	DESCRIDTION	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.

SHEET INDEX	ISSUE	AA
	SH NO.	1

TOLERANCES UNLESS OTHERWISE SPECIFIED

LINEAR

ANGLES

DR T. Sasaki DATE 5/11/'05

ENGR H. Takahashi 5/13/05

CHK H. Takahashi 5/13/05

APPD M. Hasegawa 5/17/05

CUSTOMER COPY

THIRD ANGLE PROJ

UNIT MM ~~INCH~~

FCI

TITLE

RECOMMENDED CABLE(FFC)
(Cat. No. HLW__R/S-___)

PRODUCT FAMILY

CODE JP

DO NOT SCALE PRINT

DF-140A REV A

SCALE	SIZE	DWG. NO.	REV	SHEET
–	A	JSA 93383	AA	OF

REVISIONS				
REV	DESCRIPTION	ECN	BY	DATE
A	RELEASED	J05-0270	H.T	5/10/'05

CAT. NO. & DIMENSIONS

NO. OF CONTACTS (n)	CAT. NO.		DIMENSIONS (NOTE1)		
	RIGHT ANGLE TYPE	STRAIGHT TYPE	A ±0.3	B ±0.1	C
4	HLW 4R-6C7LF	HLW 4S-6C7LF	6.6	5.12	3.0
5	HLW 5R-6C7LF	HLW 5S-6C7LF	7.6	6.12	4.0
6	HLW 6R-6C7LF	HLW 6S-6C7LF	8.6	7.12	5.0
7	HLW 7R-6C7LF	HLW 7S-6C7LF	9.6	8.12	6.0
8	HLW 8R-6C7LF	HLW 8S-6C7LF	10.6	9.12	7.0
9	HLW 9R-6C7LF	HLW 9S-6C7LF	11.6	10.12	8.0
10	HLW10R-6C7LF	HLW10S-6C7LF	12.6	11.12	9.0
11	HLW11R-6C7LF	HLW11S-6C7LF	13.6	12.12	10.0
12	HLW12R-6C7LF	HLW12S-6C7LF	14.6	13.12	11.0
13	HLW13R-6C7LF	HLW13S-6C7LF	15.6	14.12	12.0
14	HLW14R-6C7LF	HLW14S-6C7LF	16.6	15.12	13.0
15	HLW15R-6C7LF	HLW15S-6C7LF	17.6	16.12	14.0
16	HLW16R-6C7LF	HLW16S-6C7LF	18.6	17.12	15.0
17	HLW17R-6C7LF	HLW17S-6C7LF	19.6	18.12	16.0
18	HLW18R-6C7LF	HLW18S-6C7LF	20.6	19.12	17.0
19	HLW19R-6C7LF	HLW19S-6C7LF	21.6	20.12	18.0
20	HLW20R-6C7LF	HLW20S-6C7LF	22.6	21.12	19.0
21	HLW21R-6C7LF	HLW21S-6C7LF	23.6	22.12	20.0
22	HLW22R-6C7LF	HLW22S-6C7LF	24.6	23.12	21.0
23	HLW23R-6C7LF	HLW23S-6C7LF	25.6	24.12	22.0
24	HLW24R-6C7LF	HLW24S-6C7LF	26.6	25.12	23.0
25	HLW25R-6C7LF	HLW25S-6C7LF	27.6	26.12	24.0
26	HLW26R-6C7LF	HLW26S-6C7LF	28.6	27.12	25.0
27	HLW27R-6C7LF	HLW27S-6C7LF	29.6	28.12	26.0
28	HLW28R-6C7LF	HLW28S-6C7LF	30.6	29.12	27.0
29	HLW29R-6C7LF	HLW29S-6C7LF	31.6	30.12	28.0
30	HLW30R-6C7LF	HLW30S-6C7LF	32.6	31.12	29.0
31	HLW31R-6C7LF	HLW31S-6C7LF	33.6	32.12	30.0
32	HLW32R-6C7LF	HLW32S-6C7LF	34.6	33.12	31.0

CAT. NO. HLW (n) R - 6C7 LF

- SERIES — HLW
- NO. OF CONTACTS — (n)
- R : RIGHT ANGLE TYPE / S : STRAIGHT TYPE — R
- VARIATION — 6C7
- LEAD FREE — LF

NOTES

1. SEE PART DRAWINGS FOR DIMENSIONS A~C.

SHEET INDEX	ISSUE	A
	SH NO.	1

TOLERANCES UNLESS OTHERWISE SPECIFIED

LINEAR

ANGLES

DR T. Sasaki — DATE 5/11/'05

ENGR H. Takahashi — 5/13/'05

CHK H. Takahashi — 5/13/'05

APPD M. Hasegawa — 5/13/'05

CUSTOMER COPY

THIRD ANGLE PROJ

UNIT MM ~~INCH~~

FCI

TITLE CAT NO. TABLE FOR 1mm SPACING CONNECTOR (Cat. No. : HLW__R/S-6C7LF)

PRODUCT FAMILY 58JF — CODE JP

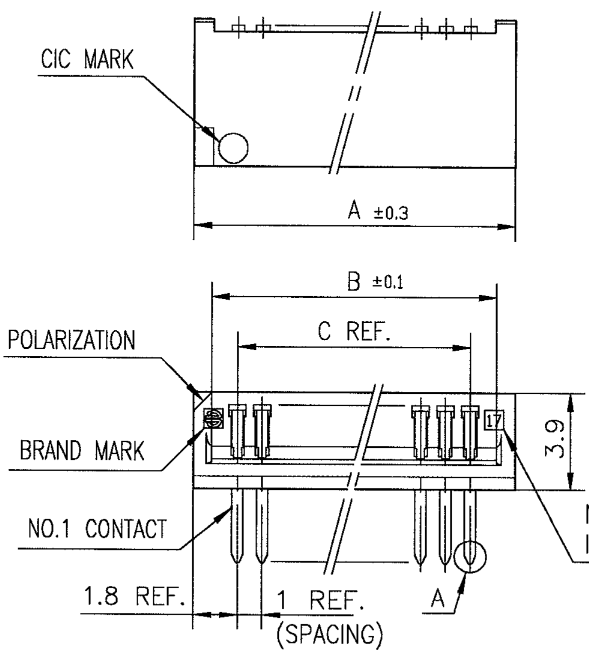
SCALE	SIZE	DWG. NO.	REV	SHEET
mm	X	JSA 96404	A	1 OF 1

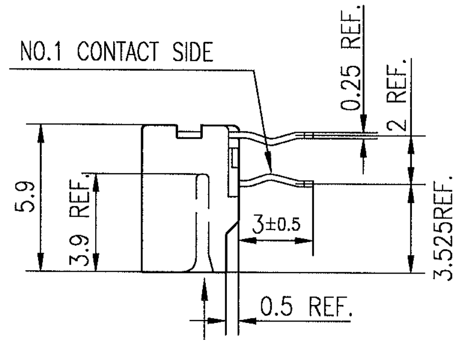
DO NOT SCALE PRINT

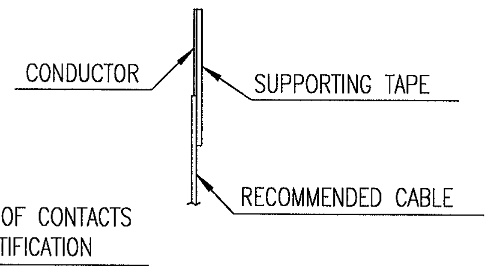
DF-140A REV A

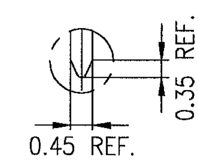
SC-HLW06 JSA96407 96408 93626

REVISIONS				
REV	DESCRIPTION	ECN	BY	DATE
A	RELEASED	J05-0270	H.T	5/10/'05
B	Added heat resistance	J05-0735	H.T	10/28/'05









DETAIL A

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.

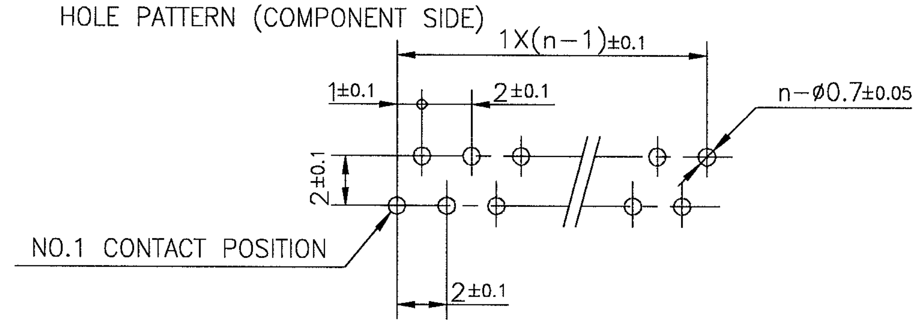
3.THE HOUSING WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 10 SECONDS IN A WAVE SOLDER APPLICATION WITH A 1.6mm THICK CIRCUIT BOARD.

RECOMMENDED PC BORAD

THICKNESS : 1.2~1.6

n : NO. OF CONTACTS

HOLE PATTERN (COMPONENT SIDE)



SHEET INDEX	ISSUE	B	
	SH NO.	1	

TOLERANCES UNLESS OTHERWISE SPECIFIED

LINEAR ±0.2

ANGLES

DR [signature] DATE 10/28/'05

ENGR [signature] 10/31/'05

CHK [signature] 10/31/'05

APPD [signature] 11/1/'05

CUSTOMER COPY

THIRD ANGLE PROJ

UNIT MM ~~INCH~~

FCI

TITLE 1mm SPACING CONNECTOR FOR CIC (Cat. No. :HLW__R-6C7LF)

PRODUCT FAMILY 58JF

CODE JP

SCALE	SIZE	DWG. NO.	REV	SHEET
X	A	JSA 96407	B	1 OF 1

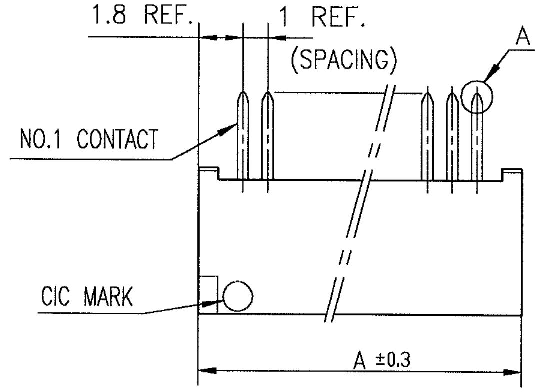
DO NOT SCALE PRINT

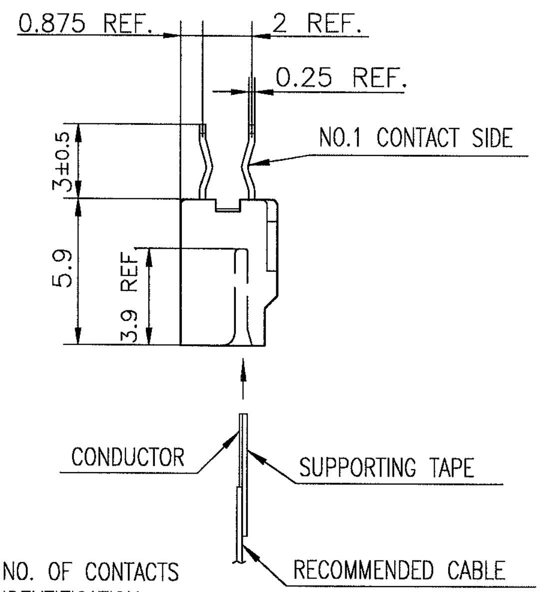
DF-140A REV A

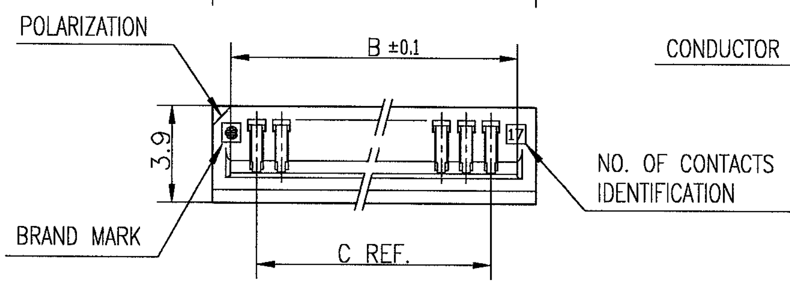
SC-HLW06 JSA96404

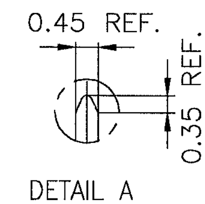
PDM: Rev:B STATUS:Released Printed: Nov 29, 2005

REVISIONS				
REV	DESCRIPTION	ECN	BY	DATE
A	RELEASED	J05-0270	H.T	5/10/'05
B	Added heat resistance	J05-0735	H.T	10/28/'05









MATERIAL

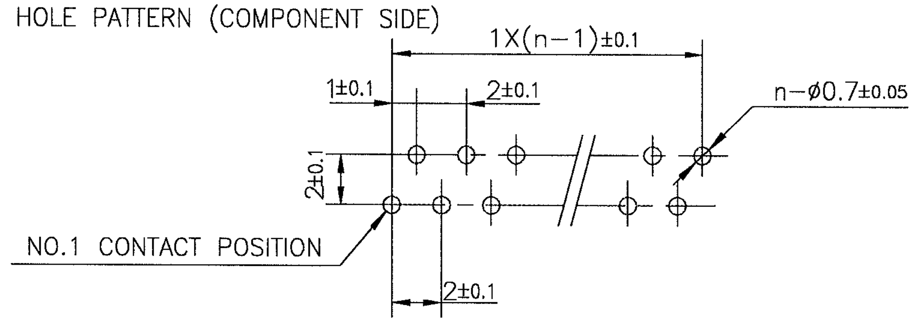
INSULATOR : PBT RESIN GLASS REINFORCED (UL94V–0)
COLOR : BLACK
CONTACT : PHOSPHOR BRONZE
PLATING : TIN

NOTE
1.THIS PRODUCT IS STRAIGHT 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.

n : NO. OF CONTACTS

RECOMMENDED PC BORAD

THICKNESS : 1.2~1.6
HOLE PATTERN (COMPONENT SIDE)



SHEET INDEX	ISSUE	B
	SH NO.	1

TOLERANCES UNLESS OTHERWISE SPECIFIED	DR	DATE 10/28/'05	CUSTOMER COPY	
LINEAR ±0.2	ENGR	10/31/'05	THIRD ANGLE PROJ	
	CHK	10/31/'05		
ANGLES	APPD	11/1/'05	UNIT MM ~~INCH~~	

FCI

TITLE 1mm SPACING CONNECTOR FOR CIC (Cat. No. :HLW__S–6C7LF)

PRODUCT FAMILY	CODE
58JF	JP

SCALE	SIZE	DWG. NO.	REV	SHEET
X	A	JSA 96408	B	1 OF 1

DO NOT SCALE PRINT

DF-140A REV A

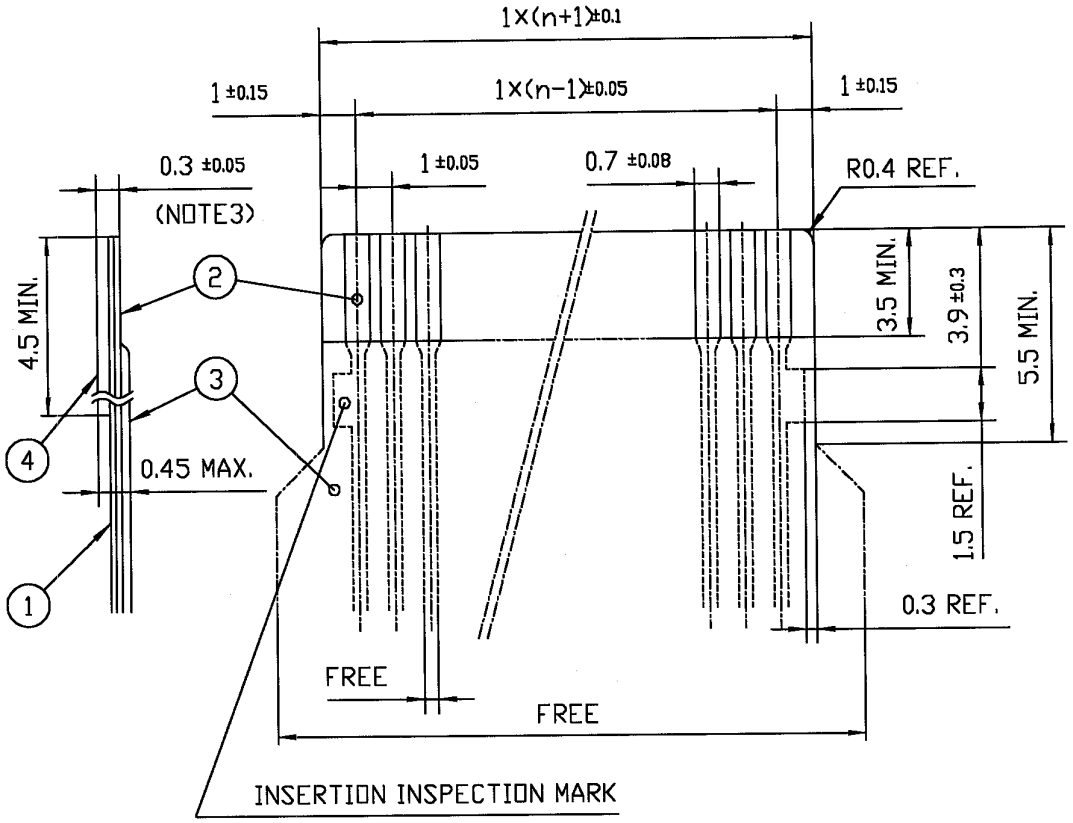
SC-HLW 06 JSA96404

PDM: Rev:B STATUS:Released Printed: Nov 29, 2005

REVISIONS				
REV	DESCRIPTION	ECN	BY	DATE
AA	Changed form	J05-0270	H.T	5/11/'05

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 POLYMIDE 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.

SHEET INDEX	ISSUE	AA
	SH NO.	1

TOLERANCES UNLESS OTHERWISE SPECIFIED

LINEAR

ANGLES

		DATE
DR	T. Sasaki	5/11/'05
ENGR		5/12/05
CHK		5/12/05
APPD		5/12/05

CUSTOMER COPY

THIRD ANGLE PROJ

UNIT MM ~~INCH~~

FCI

TITLE

RECOMMENDED CABLE(CIC)

(Cat. No. HLW__R/S-___)

PRODUCT FAMILY 58JF

CODE JP

DO NOT SCALE PRINT

DF-140A REV A

SCALE	SIZE	DWG. NO.	REV	SHEET
5/1	A	JSA93626	AA	OF