

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China







2mm Pitch, Multi Functional Connector System (Floating [Board-to-Board], Swing-Lock [Wire-to-Board], Short-Circuit Pin)

DF59 Series



Features

●Common to all series

1. High Operating Temperature

DF59's are rated at temperatures up to 105 °C.

2. Swing Lock Structure (Wire-to-Board)

The DF59 features a "swing-lock" mechanism that employs both a positive and friction lock. This helps to prevent accidental unmating by severe wiring and mechanical stress.

3. Short-Circuit Pin

The Short-Circuit Pin allows the termination of an open circuit. Typically used at the end of a series of connected circuit boards.

4. Multi Function Design

The DF59 has the ability to function as either a Board-to-Wire or Board-to-Board System. The PCB mounted receptacle is designed to mate with the W-to-B, B-to-B, and Short Circuit Pin connectors. This multi function ability allows versatility while keeping connectors to a minimum.

5. Contact Design

The terminal design features two-point contact to ensure a highly reliable connection.

6. Common Applicator

Crimping can be performed using the applicator (AP105-DF11-22S) for the existing series DF11-22S C F(A), by replacing the die with the one for DF59 series.

* For crimping quality standards and crimping conditions. crimping needs to be performed in accordance with the specific conditions of DF59-22PCFA.

Common to DF59/59S/59SN

7. Floating Structure (Board-to-Board)

The Board-to-Board connector can be used to connect two PCB together in a co-planar arrangement and features a "Stress free contact" that floats \pm 0.5mm in the X, Y and Z dimensions.

8. Space Savings

The DF59 series offers high performance in a compact, space saving design; featuring a 2mm pitch and coupled with a mated height of only 2.48mm with AWG#22 cable. The single position floating plugs DF59S and DF59SN are specifically designed to save space, and can be mounted in high density applications.

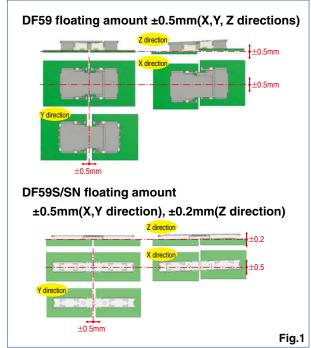
9. Robust locking structure on DF59M (W-to-B Connection)

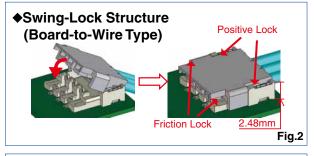
The lock mechanism on compact DF59M provides 16N horizontal lock strength. (Fig.4)

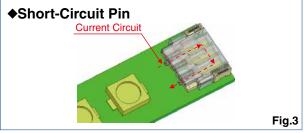
10. Standardization of PCB layout

The DF59S/SN type is used on board-to-board connections, and the DF59M type is intended for wire-to-board connections. Although they have different receptacles, the PCB mounting pattern can be used for these two types. Different combinations of these connectors can be used in the same system with a common PCB. This allows for standardization of PCB. (Fig.5)

Note: Each stencil mask is necessary







◆W-to-B structure (DF59M)

Clear tactile click and high locking strength achieved by the robust locking mechanism

Mating force: 16N min. (in a horizontal direction)



◆Standardization of PCB pattern

DF59S/SN type and DF59M type can be used in the same system by using a common PCB.



■Product Specifications

		DF59/S/SN	3A	O
Ratings	Current rating	DF59M	6A (22 AWG), 5A (24 AWG) 4A (26 AWG), 3A (28 AWG)	Operating Temperature : -40 to 105°C (Note 1) Operating Humidity Range : 20 to 80%
	Voltage reting	DF59/S/SN	AC/DC 230V (Note 3)	Storage Temperature Range : -10 to 60°C (Note 2)
	Voltage rating	DF59M	AC/DC 350V (Note 3)	Storage Humidity Range : 40 to 70% (Note 2)

Items		Specifications		Conditions
1.Contact resistance	DF59-*P-2FC/SP DF59S/SN	50mΩ min.		Under 6V DC, must be measured by 100mA
1.Comaci resistance	DF59M-1S-H	45mΩ min.		(DC or 1000Hz)
	DF59-*P-2C	30mΩ min.		
2.Vibration	No electrical disco	ontinuity over 1μ s.		Frequency 10 to 55Hz, single amplitude 0.75mm, 3 directions, 10 cycles each
3.Shock	No electrical disco	ontinuity over 1μ s.		Acceleration 490 m/s ² , 11ms; duration, sine half-wave 3 cycles in each of the 3 axis.
		■Contact resistance	■Insulation resistance	
4.Humidity	DF59-*P-2FC/SP DF59S/SN	50mΩ min.	1000MO	Temperature $40 \pm 2^{\circ}$ C, humidity 90 to 95%, left for 96 hours
	DF59M	45mΩ min.	1000MΩ max.	lett for 96 flours
	DF59-*P-2C	30mΩ min.		
		■Contact resistance	■Insulation resistance	
5.Temperature cycle	DF59-*P-2FC/SP DF59S/SN	50mΩ min.		(-55°C: 30 min. → 5-35°C: 2 to 3 min. →85°C: 30 min. →5-35°C: 2 to 3 min.)
,	DF59M	45mΩ min.	1000MΩ max.	5 cycles
	DF59-*P-2C	30mΩ min.		
		■Contact resistar	nce	■Number of insertion and withdrawal force
	DF59-*P-2FC			30 times
6. Operating Life	DF59-*P-2FC/SP DF59S/SN	50mΩ min.		10 times
	DF59M	45mΩ min.		20 times
	DF59-*P-2C	30mΩ min.		30 times
7.Resistance to soldering heat	No melting of resi	n which affect the p	performance.	Reflow : Depends on recommended temperature profile. Hand soldering : Soldering iron temperature 350 \pm 10 °C, 3 sec.

Note 1 : Including temperature rise caused by current flow.

Note 2: The term "storage" refers to products stored for long period of time prior to mounting and use.

Operating temperature and humidity range covers connectors after installation, storage, shipment or during transportation.

Note 3: The rated voltage is the applied voltage when connectors are mounted parallel to each other on the PCB with a distance of 1.6mm or more between them. Hirose recommends his mounting distance.

This mounting distance is required in order to prevent creepage between the printed wiring to maintain an effective voltage of 300V, according to IEC 60664 and JIS C 60664 standards.

■Materials / Finish

Items		Parts	Materials	Treatment	UL Specification	
	DF59	Insulator	LCP	Natural	UL94V-0	
December	DF39		Discontinuit	Gold plated		
Receptacle	DF59S	Contact	Phosphor bronze	Tin plated		
	DF59M		Copper Alloy	Till plated		
	DF59	Insulator	PBT	White	UL94V-0	
	DESS	Contact	Brass	Gold plated		
Electing plug	DF59S DF59SN	Insulator	LCP	Natural	UL94V-0	
Floating plug		Contact	Brass	Tin plated		
		Insulator	LCP	Natural	UL94V-0	
	DESSIN	Contact	Brass	Tip plated		
Crimp contact	DF59M	Contact	Copper Alloy	Tin plated		
Charl	nin	Insulator	PBT	White	UL94V-0	
Short p	piri	Contact	Brass	Gold plated		
Crimp	case	Insulator	PBT	White	UL94V-0	
Crimp contact		Contact	Phosphor bronze	Gold plated		

■Product Number Structure

Refer to the chart below when determining the product specifications from the product number. Please select from the product numbers listed in this catalog when placing orders.

•Receptacle



- Series Name: DF
 Series No.: 59
 None: Standard
 S: B-to-B type
 M: W-to-B type
 Number of contacts: 1, 2, 3, 4
 Type of connector
- 6 Pitch None : Single contact type
 - 2: Standard 2mm (4mm: Without the central contact)
- 7 Termination form

V : SMT straight type (B-to-B type)

H: SMT right angle type (W-to-B type)

●Plug

S: Receptacle

$$\frac{\mathsf{DF}}{\mathsf{O}} \; \frac{\mathsf{59}}{\mathsf{O}} \; \frac{\mathsf{\#}}{\mathsf{O}} \; - \; \frac{\mathsf{*}}{\mathsf{O}} \; \frac{\mathsf{P}}{\mathsf{O}} \; - \; \frac{\mathsf{*}}{\mathsf{O}} \; \frac{\mathsf{FC}}{\mathsf{O}}$$

Series Name : DF	5 Type of connector
2 Series No. : 59	P : Plug
3 None : Standard	6 Pitch
S : Single contact type	2 : DF59 : 2mm (4mm : Without the central contact)
SN : Single contact slim type	None : DF59S/SN/M
4 Number of contacts DF59 : 2, 3, 4 DF59S/SN: 1	Termination form FC : Floating

Short-Circuit pin

$$\frac{\mathsf{DF}}{\bullet} \ \frac{59}{2} \ - \ \frac{*}{\bullet} \ \frac{\mathsf{P}}{\bullet} \ - \ \frac{2}{\bullet} \ \frac{\mathsf{SP}}{\bullet}$$

Series Name : DF	5 Pitch : 2mm
2 Series No. : 59	6 Termination form
3 Number of contacts : 2, 3, 4	SP : Short Pin
Type of connector P : Plug	

●Crimp Socket

$$\frac{\mathsf{DF}}{\bullet} \ \frac{59}{2} \ - \ \frac{*}{\bullet} \ \frac{\mathsf{P}}{\bullet} \ - \ \frac{2}{\bullet} \ \frac{\mathsf{C}}{\bullet}$$

1 Series Name : DF	5 Pitch: 2mm
2 Series No. : 59	6 Termination form
3 Number of contacts : 2, 3, 4	C : Crimp case
4 Type of connector	
P: Plug	

●Contact (W-to-B)

2224: 22 to 24 AWG 2628: 26 to 28 AWG

DF	59	M	-	2224	PCF
•	•	•			6

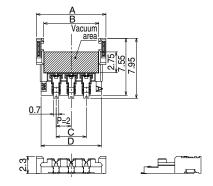
Series Name : DF
2 Series No. : 59
3 None : Standard
M: Single contact type (W-to-B M=micro)
4 Applicable Wire
22 : 22 AWG

5 Form Type/Package Type/Plating type

PCFA: Plug crimping contact-Reel contact-Gold plating
PCA: Plug crimping contact-Bulk contact-Gold plating
PCF: Plug crimping contact-Reel contact-Tin plating
PC: Plug crimping contact-Bulk contact-Tin plating

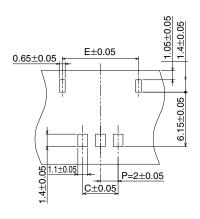
■Straight Receptacle (SMT)

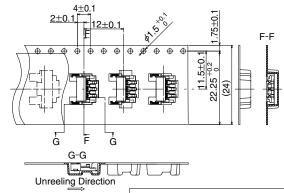




●Recommended PCB Dimensions (t=1.6mm)

Packaging Dimensions





[Specification No.]

(51): Gold plating, emboss packaging

Unit: mm

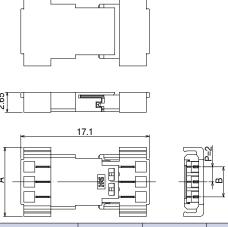
Part No.	HRS No.	No. of contacts	Α	В	С	D	E
DF59-2S-2V(51)	667-0001-0 51	2	7.2	5.3	2.0	6.0	6.62
DF59-3S-2V(51)	667-0002-3 51	3	9.2	7.3	4.0	8.0	8.62
DF59-4S-2V(51)	667-0003-6 51	4	11.2	9.3	6.0	10.0	10.62
DF59-2S-4V(51)	667-0021-8 51	2*	9.2	7.3	4.0	8.0	8.62

* DF59-2S-4V(51) is made by removing the middle pin of DF59-3S-2V(51) at the factory.

Note: Please order in full reel quantities. (2,000 pcs/reel)

■Floating Plug





[Specification No.] (50): Gold plating, tray packaging

Unit : mm

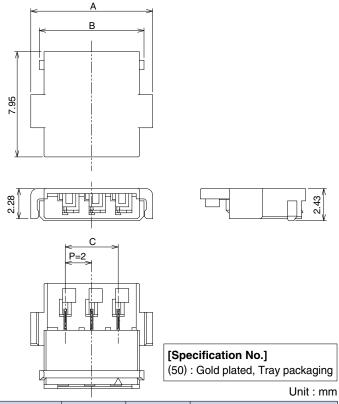
Part No.	HRS No.	No. of contacts	Α	В	Packaged Quantity/Tray
DF59-2P-2FC(50)	667-0006-4 50	2	7.2	2.0	
DF59-3P-2FC(50)	667-0007-7 50	3	9.2	4.0	50
DF59-4P-2FC(50)	667-0008-0 50	4	11.2	6.0	50
DF59-2P-4FC(50)	667-0020-5 50	2*	9.2	4.0	

 \star DF59-2P-4FC(50) is made by removing the middle pin of DF59-3P-2FC(50) at the factory.

Note: Please order in full tray quantities. (50 pcs/tray)

■Short-Circuit Pin



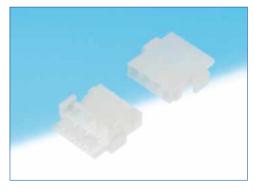


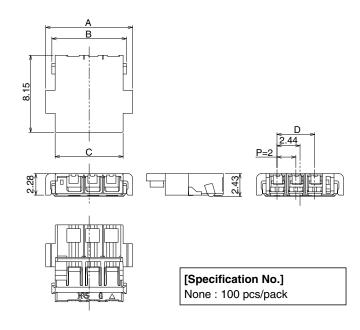
С Part No. HRS No. No. of contacts Α В Packaged Quantity/Tray DF59-2P-2SP(50) 667-0017-0 50 2 7.2 5.9 2.0 DF59-3P-2SP(50) 667-0018-3 50 3 9.2 7.9 4.0 100 DF59-4P-2SP(50) 667-0046-9 50 4 11.2 9.9 6.0

Note: Please order in full tray quantities.

Note: For 4 pos. type contact No.1 and 2, No.3 and 4 are connected respectively.

■Crimp Socket





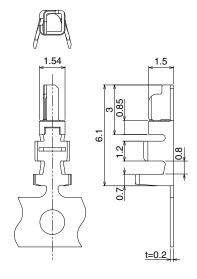
Unit: mm

Part No.	HRS No.	No. of contacts	Α	В	С	D
DF59-2P-2C	667-0011-4 00	2	7.2	5.9	5.2	2.0
DF59-3P-2C	667-0012-7 00	3	9.2	7.9	7.2	4.0
DF59-4P-2C	667-0013-0 00	4	11.2	9.9	9.2	6.0

Note: Please order in full pack quantities. (100 pcs/pack)

■Crimp contact





Part No.	HRS No.	Packaging Quantity		Treatment
DF59-22PCFA	667-0016-8 00	Reel contact (Note 1)	10,000 contacts / reel	Cold plated
DF59-22PCA	667-0022-0 00	Bulk contact (Note 2)	100 contacts / pack	Gold plated

Note 1 : Please order reel contacts by full reel quantities. (10,000 pcs/reel) Note 2 : Please order loose piece contacts in full pack. (100 pcs/pack)

Applicable Wire (Tin plated soft copper wire)

Conductor Size (Wire Constitution)	Jacket Diameter
22 AWG (17 /φ0.16mm)	UL1061 (<i>ϕ</i> 1.26mm)
22 Αννά (17 /ψυ. Ισιππ)	UL3265 (∮1.38mm)

Recommended Wire

UL1061, UL3265

Strip Length

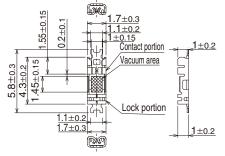
1.7 to 2.3mm

Note: Please contact your nearest Hirose Sales Representative for information regarding compatible wire Remarks: Please consult with our sales representative when using wires other than applicable wire.

Note: The strip length is a reference value. Please make adjustments so finished crimps will meet the specified values. Refer to the crimping quality standards (ATAD-H0504) for details.

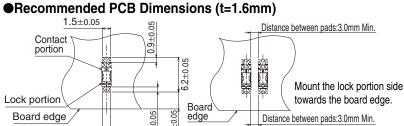
■Single Contact Type Straight Receptacle (SMT)





Packaging Dimensions

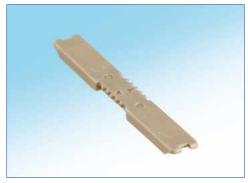
t=0.3±0.05



	0002 3.005 1.5±0.05	-	Dodanoe between pade.c.cmm min.	Unreeling Di	irection ⇒
Part No.	HRS No.		[Specification No.]		
DF59S-1S-V(21)	667-0024-6 21		(21) : Tin plating, emboss pack	kaging	

Note: Please order in full reel quantities. (10,000 pcs/reel)

■Single Contact Type Floating Plug



2.±0.37 Fig. Plug center markings	1.13±0.2 CAV No. HRS logo mark

Part No.	HRS No.
DF59S-1P-FC(21)	667-0023-3 21

[Specification No.] (21): Tin plating, emboss packaging

Note: Please order in full reel quantities. (10,000 pcs/reel)

■Single Contact Slim Type Floating Plug



<u>\1.</u>	7±0.2	++1.17±0	0.2
17.7±0.3	ug center arkings		HRS logo mark CAV No.

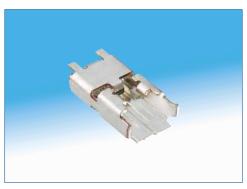
Part No.	HRS No.
DF59SN-1P-FC(21)	667-0028-7 21

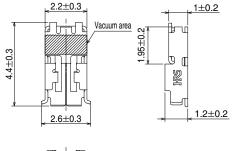
[Specification No.] (21): Tin plating, emboss packaging

Note: Please order in full reel quantities. (10,000 pcs/reel)

Note: Use the special (DF59SN-1P-FC/IN-TOOL) tool for connector insertion.

■Single Contact Type Right Angle Receptacle (SMT)

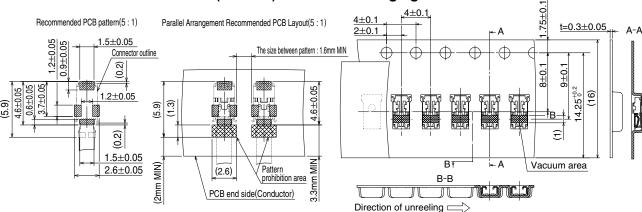






●Recommended PCB Dimensions (t=1.6mm)

Packaging Dimensions



Part No.	HRS No.
DF59M-1S-H(21)	667-0041-5 21

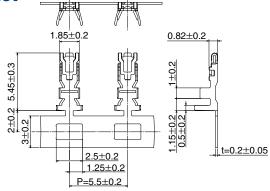
[Specification No.]
(21): Tin plating, emboss packaging

Note 1 : Please order in full reel quantities. (10,000 pcs/reel)

Note 2: This connector is designed to mate with Crimp contact of DF59M only. (P.8)

■Single Contact Type Crimp Contact





Part No.	HRS No.	Applicable Wire			D. r. T. rm a	Ou ontitu	Tue etm ent		
Fait No.	nno No.	Recommended Wire	Jacket Diameter	Conductor Size	Wire Constitution	By Type	Quantity	Treatment	
DF59M-2224PCF	667-0042-9 00		φ1.11 to 1.26mm	22 AWG	17/ø0.16mm	Reel contact	10,000/reel		
DF39W-2224FGF	007-0042-0 00		φ1.11 10 1.26/11/11	24 AWG	11/ø0.16mm	(Note 1)			
DF59M-2224PC	667-0044-3 00		<i>ϕ</i> 1.26mm	22 AWG	17/ ø 0.16mm	Bulk contact	100/pack		
DF39W-2224FC 007-0044-3	007-0044-3 00	UL10368	<i>ϕ</i> 1.11mm	24 AWG	11/\(\phi\)0.16mm	(Note 2)	100/pack	Tin plated	
DF59M-2628PCF	667-0043-0 00		φ0.88 to 0.98mm	26 AWG	7/ ø 0.16mm	Reel contact	10.000/reel	Till plateu	
DF39W-2020FCF	007-0043-0 00			28 AWG	7/ ø 0.17mm	(Note 1)	10,000/1661		
DF59M-2628PC	667-0045-6 00		<i>∮</i> 0.98mm	26 AWG	7/ ø 0.16mm	Bulk contact	100/pack		
DE39101-2020PC	667-0045-6 00		<i>ϕ</i> 0.88mm	28 AWG	7/ ø 0.17mm	(Note 2)	100/pack		

- Note 1: Please order reel contacts by full reel quantities. (10,000 pcs/reel)
- Note 2 : Please order loose piece contacts in full pack. (100 pcs/pack)
- Note 3 : Please consult with our sales representative when using wires other than applicable wire.
- Note 4: The strip length is a reference value. Please make adjustments so finished crimps will meet the specified values. Refer to the crimping quality standards (ATAD-H0778) for details.

● Applicable Crimping Tool

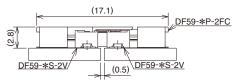
Types	Part No.	HRS No.	Applicable Contact	Remarks
	AP105-DF59-22P	901-4619-8	DF59-22PCFA	
	AP105-DF59M-2224P	901-4638-2	DEFOM-2224DCE	
Applicator	DHS887200H-UP	_	DF59M-2224PCF	(Note 2) Manufactured by Japan Automatic Machine Co., Ltd.
	AP105-DF59M-2628P	901-4639-5	DF59M-2628PCF	
	DHS887300H-UP	_	DF39WF2020FGF	(Note 2) Manufactured by Japan Automatic Machine Co., Ltd.
Press Unit	CM-105C	901-0001-0	-	
	HT801/DF59-22P	550-0404-7	DF59-22PCA	
Hand Tool	HT801/DF59M-2224P	550-0420-3	DF59M-2224PC **UL10368 AWG#22、24 Only	
	HT801/DF59M-2628P	550-0421-6	DF59M-2628PC **UL10368 AWG#26、28 Only	
Hand Tool	DF-C-PO(B)	550-0179-2	DF59-22PCFA DF59-22PCA	
(W-to-B)	DF-C-PO(A)	550-0170-8	DF59M Series	
Extraction Tool (B-to-B)	DF59SN-1P-FC/IN-TOOL	667-0040-2	DF59SN-1P-FC	

Note 1: Customers are strongly encouraged to utilize HRS application tooling or tooling created by a Hirose tooling partner. Hirose assumes no liability for customers using tooling from non-recognized sources.

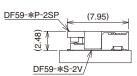
Note 2: Please contact Japan Automatic Machine Co., Ltd. (hereinafter J.A.M.) through their website regarding crimping issues when using applicators manufactured by J.A.M. URL http://www.jam-net.co.jp

Mating Dimensions

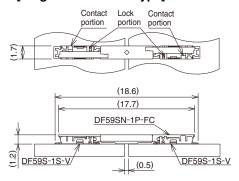
Board-to-board connection (floating plug) [Standard]



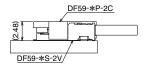
Short-circuit pin connection



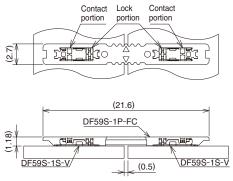
[Single contact slim type]



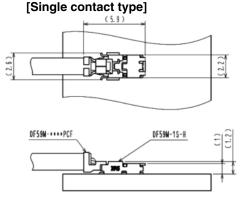
•Wire-to-Board Mated condition [Standard]



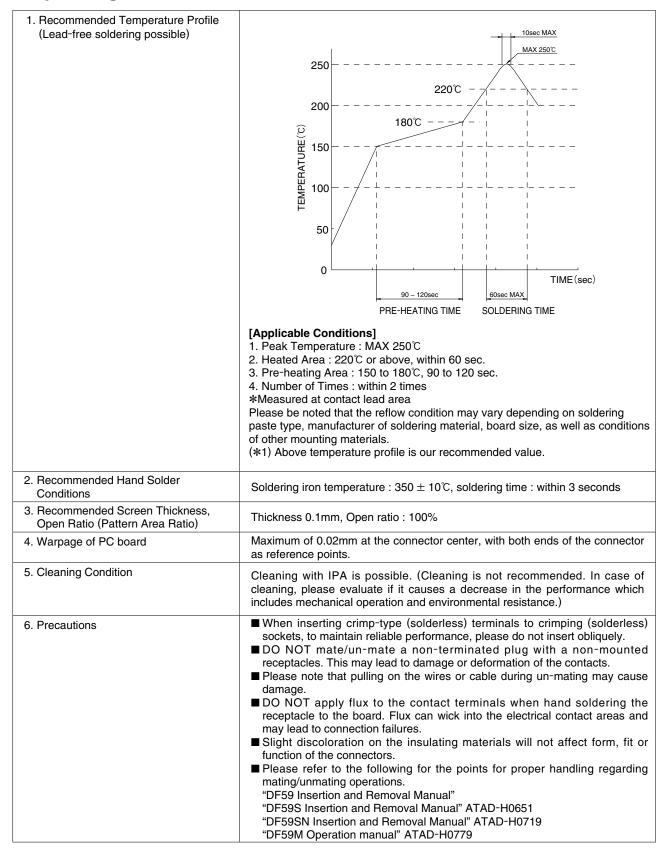
[Single contact type]



•Wire-to-Board connection



Operating Precautions



~:
ĕ
≥
se
æ
щ
¥
₫
峦
₹
2
늡
_:
8
\mathcal{O}
$_{\odot}$
CTRI
등
111
7 HIROSE ELE
ш
\overline{S}
Õ
≝
Ι
7
Ö
7
뉴
Ę
Q
8
J
7
Ö
'n
Ξ.
٩
1

MEMO:

USA:

HIROSE ELECTRIC (U.S.A.), INC. HEADQUARTERS CHICAGO OFFICE

2300 Warrenville Road. Suite 150. Downers Grove, IL 60515 Phone: +1-630-282-6700 http://www.hirose.com/us/

USA:

HIROSE ELECTRIC (U.S.A.), INC. BOSTON OFFICE

300 Brickstone Square Suite 201, Andover, MA 01810

Phone: +1-978-662-5255

GERMANY:

HIROSE ELECTRIC EUROPE B.V. NUREMBERG OFFICE

Neumeyerstrasse 22-26, 90411 Nurnberg

Phone: +49-911 32 68 89 63 Fax: +49-911 32 68 89 69 http://www.hirose.com/eu/

UNITED KINGDOM:

HIROSE ELECTRIC EUROPE BV (UK BRANCH)

4 Newton Court, Kelvin Drive, Knowlhill,

Milton Keynes, MK5 8NH Phone: +44-1908 202050 Fax: +44-1908 202058 http://www.hirose.com/eu/

HIROSE ELECTRIC TECHNOLOGIES (SHENZHEN) CO., LTD.

Room 09-13, 19/F. Office Tower Shun Hing Square, Di Wang Commercial Centre. 5002 Shen Nan Dong Road, Shenzhen City, Guangdong Province, 518008

Phone: +86-755-8207-0851 Fax: +86-755-8207-0873 http://www.hirose.com/cn/

KOREA:

HIROSE KOREA CO.,LTD.

250, Huimanggongwon-ro, Siheung-si, Gyeonggi-do, Korea, 15083 Phone: +82-31-496-7000 or 7124

Fax: +82-31-496-7100 http://www.hirose.co.kr/

INDIA:

HIROSE ELECTRIC SINGAPORE PTE. LTD. BANGALORE LIAISON OFFICE

Unit No-403, 4th Floor, No-84, Barton Centre, Mahatma Gandhi (MG) Road, Bangalore 560 001, Karnataka, India

Phone: +91-80-4120 1907 Fax: +91-80-4120 9908 http://www.hirose.com/sg/

HIROSE ELECTRIC (U.S.A.), INC. SAN JOSE OFFICE

2841 Junction Ave. Suite 200 San Jose, CA, 95134 Phone: +1-408-253-9640 Fax: +1-408-253-9641 http://www.hirose.com/us/

THE NETHERLANDS: HIROSE ELECTRIC EUROPE B.V.

Hogehillweg #8 1101 CC Amsterdam Z-0

Phone: +31-20-6557460 Fax: +31-20-6557469 http://www.hirose.com/eu/

GERMANY:

HIROSE ELECTRIC EUROPE B.V. HANOVER OFFICE

Bayernstr. 3, Haus C 30855 Langenhagen, Germany

Phone: +49-511 97 82 61 30 Fax: +49-511 97 82 61 35 http://www.hirose.com/eu/

CHINA:

HIROSE ELECTRIC (SHANGHAI) CO., LTD.

18, Enterprise Center Tower 2, 209# Gong He Road, Jing'an District, Shanghai, CHINA 200070

Phone: +86-21-6391-3355 Fax: +86-21-6391-3335 http://www.hirose.com/cn/

HONG KONG:

HIROSE ELECTRIC HONGKONG TRADING CO., LTD.

Room 1001, West Wing, Tsim Sha Tsui Centre, 66 Mody Road, Tsim Sha Tsui East, Kowloon, Hong Kong

Phone: +852-2803-5338 Fax: +852-2591-6560 http://www.hirose.com/hk/

SINGAPORE:

HIROSE ELECTRIC SINGAPORE PTE. LTD.

10 Anson Road #26-16, International Plaza 079903, Singapore

Phone: +65-6324-6113 Fax: +65-6324-6123 http://www.hirose.com/sg/

MALAYSIA:

PENANG REPRESENTATIVE OFFICE

1-21-01, Suntech @ Penang Cybercity (1164), Lintang Mayang Pasir 3,11950, Bayan Baru, Penang, Malaysia.

Phone: +604-619-2564 Fax: +604-619-2574 http://www.hirose.com/sg/

USA:

HIROSE ELECTRIC (U.S.A.), INC. DETROIT OFFICE (AUTOMOTIVE)

17197 N. Laurel Park Drive, Suite 253,

Livonia, MI 48152 Phone: +1-734-542-9963 Fax: +1-734-542-9964 http://www.hirose.com/us/

HIROSE ELECTRIC EUROPE B.V. GERMAN BRANCH

Schoenberastr. 20, 73760 ostfildern Phone: +49-711-456002-1 Fax: +49-711-456002-299

http://www.hirose.com/eu/

FRANCE:

HIROSE ELECTRIC EUROPE B.V. PARIS OFFICE

Regus La Garenne Colombes, Place de La Belgique, 71 Boulevard National La Garenne Colombes, 92250, France

Phone: +33 (0) 1 7082 3170 Fax: +33 (1) 7082 3101 http://www.hirose.com/eu/

CHINA:

HIROSE ELECTRIC (SHANGHAI) CO.,LTD. BEIJING BRANCH

A1001, Ocean International Center, Building 56# East 4th Ring Middle Road, ChaoYang District, Beijing, 100025

Phone: +86-10-5165-9332 Fax: +86-10-5908-1381 http://www.hirose.com/cn/

HIROSE ELECTRIC TAIWAN CO., LTD.

103 8F. No.87, Zhengzhou Rd., Taipei

Phone: +886-2-2555-7377 Fax: +886-2-2555-7350 http://www.hirose.com/tw/

INDIA:

HIROSE ELECTRIC SINGAPORE PTE, LTD, DELHI LIAISON OFFICE

Office NO.552, Regus-Green Boulevard, Level5, Tower C, Sec62, Plot B-9A, Block B, Noida, 201301, Uttar Pradesh, India

Phone: +91-12-660-8018 Fax: +91-120-4804949 http://www.hirose.com/sg/

THAILAND:

BANGKOK OFFICE (REPRESENTATIVE OFFICE)

Unit 4703, 47th FL., 1 Empire Tower, South Sathorn Road, Yannawa, Sathorn, Bangkok 10120 Thailand

Phone: +66-2-686-1255 Fax: +66-2-686-3433 http://www.hirose.com/sg/



HIROSE ELECTRIC CO.,LTD.

2-6-3, Nakagawa Chuoh, Tsuzuki-Ku, Yokohama-Shi 224-8540, JAPAN TEL: +81-45-620-3526 Fax: +81-45-591-3726

http://www.hirose.com

http://www.hirose-connectors.com