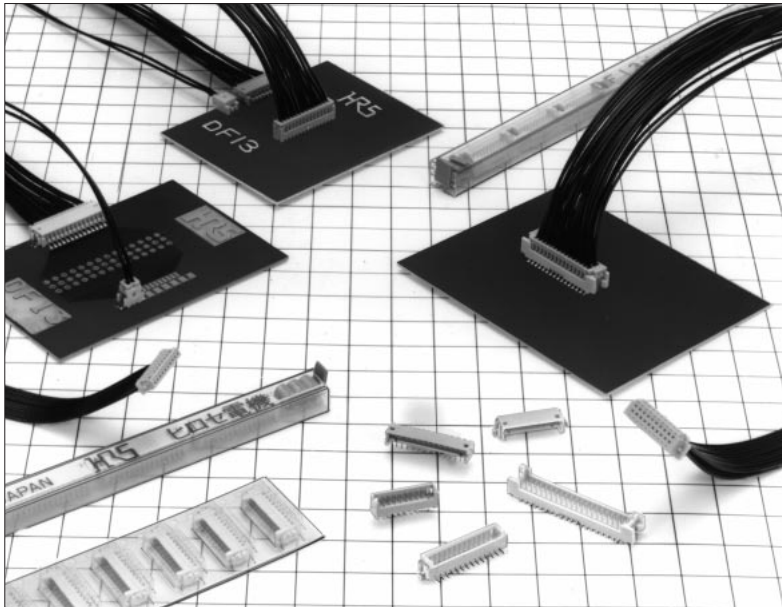
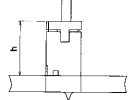
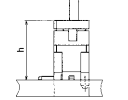
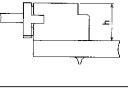
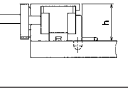


DF13 SERIES

1.25 mm Pitch Compact Crimp Connectors



Low profile with package height			
Type	System	Height (h)	
Straight	DIP		5.3mm
	SMT		5.8mm
Right-angle	DIP		3.6mm
	SMT		

■ Features

1. Compact

Low profile with package height of 5.8 mm (SMT straight type). DIP straight type: 5.3 mm, DIP right-angle type: 3.6 mm. For details, see "APPLICATION" on page 52.

2. Multi-pin

Double-row type available with up to 40 pins, 30% higher packaging density than single-row type.

3. Compatible with automatic packaging

Vacuum-operated header allows automatic embossed packaging. See Fig. 1.

Can be packed in magazines for delivery.

4. Enhanced functions packed into compact unit

Box construction prevents prying-out, completely preventing mis-insertion.

In addition, the SMT-compatible headers are reinforced to prevent separation of the solder connection.

See Fig. 1.

■ Application

Notebook computers, portable information terminals, compact OA equipment, and various consumer equipment such as video movies.

Designed for automatic packaging

Suction plane provided for suction type automatic packaging machine

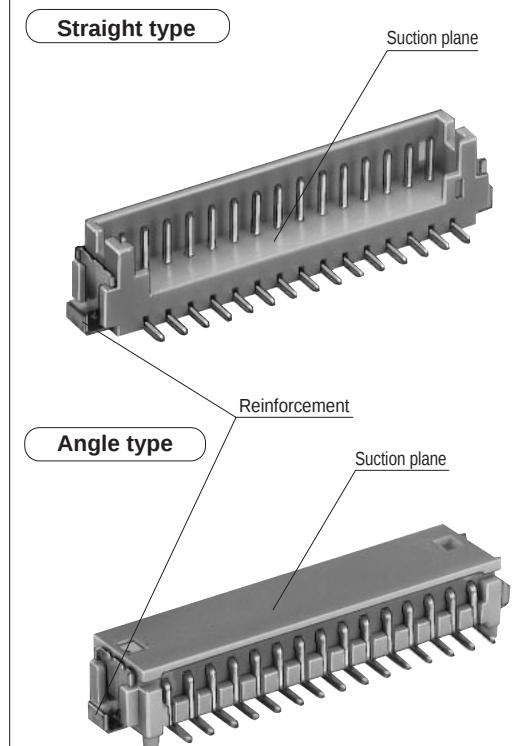


Fig. 1

Product standard

Rating	Rated current Rated voltage	1 A AC 150 V	Operating temp. Operating humidity	-35~85°C(Note 1) 40~80%	Storage temp. Storage humidity	-10~60°C (Note 2) 40~70% (Note 2)
Item	Standard			Conditions		
1. Insulation resistance	500 MΩ or more			Measured at 100 VDC		
2. Withstand voltage	No flashover or dielectric breakdown allowed			AC500V 1 minute		
3. Contact resistance	30 mΩ or less			Measured at 100 mA		
4. Insertion and withdrawals force	MIN 0.3 N(30gf), MAX 3 N(300gf)			To be measured with a steel pin of $\square 0.35 \pm 0.002$ mm		
5. Vibration resistance	No electrical discontinuity of 1 μs or more allowed			Frequency: 10 - 55 Hz, single-side amplitude: 0.75 mm, 3 directions for 2 hours		
6. Moisture resistance	Contact resistance: 30 mΩ or less, insulation resistance: 500 MΩ or more			Temperature: 40±2°C, humidity: 90 - 95%, allow 96 hours before measurement .		
7. Temperature cycle	Contact resistance: 30 mΩ or less, insulation resistance: 500 MΩ or more			(-55°C for 30 min. → 5 - 35°C for 10 min. → 85°C for 30 min. → 5 - 35°C for 10 min.) 5 cycles		
8. Insertion/extraction life	Contact resistance: 30 mΩ or less			Solder-plated: 30 insertions/extractions		Gold-plated : 50 insertions/extractions
9. Solder heat resistance	No melting of resin affecting the connector performance allowed			Dip type	Flow: 250°C for 10 min.	Manual soldering: solder temperature: 300°C for 3 seconds
				SMT type	Reflow: At recommended temperature profile	Manual soldering: solder temperature: 300°C for 3 seconds

Note 1: Includes temperature rise when power is on.

Note 2: "Storage" refers to a long period of storage without use of the product before being mounted on a board.

The operating temperature and humidity ranges apply to the connectors mounted on a board when turned off, and connectors under temporary storage such as those being transported.

Note 3: The above standards are typical for the DF13 series. The formal standards are stated in the delivery specifications.

Material

Product	Part	Material	Processing	UL Rating
Crimp socket	Insulation	Polyamide resin	Beige	UL94V-0
Crimp socket terminal	Terminal	Phosphor bronze	Solder-plated or Gold-plated	
Pin header (Dip)	Insulation	Polyamide resin	Beige	UL94V-0
	Terminal	Brass	Solder-plated	
Pin header (SMTsingle-row)	Insulation	Polyamide resin	Beige	UL94V-0
	Terminal	Brass	Solder-plated or Gold-plated	
	Fittings	Phosphor bronze	Solder-plated	
Pin header (SMTdouble-row)	Insulation	Polyamide resin	Beige	UL94V-0
	Terminal	Brass	Solder-plated or Gold-plated	
	Fittings	Phosphor bronze	Solder-plated	

Note: Our tin plating is protected from whiskers.

Structure of the product number

The product specifications can be determined from the product number.

When ordering, select products using the product numbers listed in this catalog 46 to 52 pages.

Connector

DF13# - * S - 1.25C
① ② ③ ④ ⑤ ⑥ ⑦

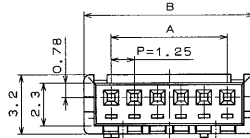
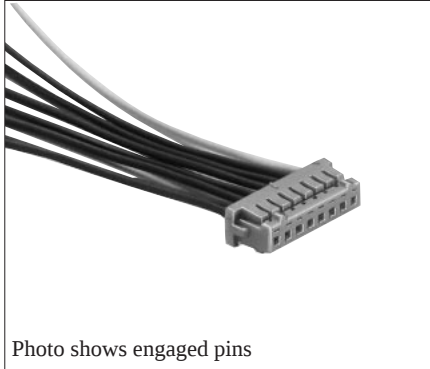
① Series Name : DF	④ No. of contacts: Single row: : 2~12, 14, 15 Double-row: : 10, 20, 30, 40	⑥ Contact pitch: 1.25 mm
② Series No. : 13		
③ Shape symbol Blank: With guide post A: Without guide post For V type only B: With guide post, embossed type packing C: Without guide post, embossed type packing	⑤ Types of connectors S: Single-row socket P: Single-row pin header DS: Double-row socket DP: Double-row pin header	⑦ Connection form/Type of termination C: Crimp case DSA: Straight DIP DS: Right-angle DIP V: Straight SMT H: Right-angle SMT

Terminal

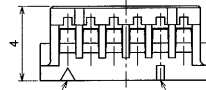
DF13 - 2630SCFA
① ② ③

① Applicable wire size 2630 : AWG26~30	③ Type of plating Blank: Tin-plated A: Gold-plated
② Type of form/Type of packaging SCF : Socket contact · reel	

Single-row socket



[Specification No.]: -**,(**)
 Blank : 100 pcs. per pack
 (40) : 500 pcs. per package
 (41) : 1000 pcs. per package



Terminal No. 1 mark Marked every 5 pins

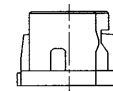
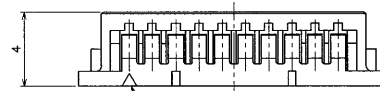
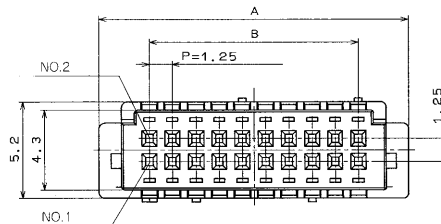
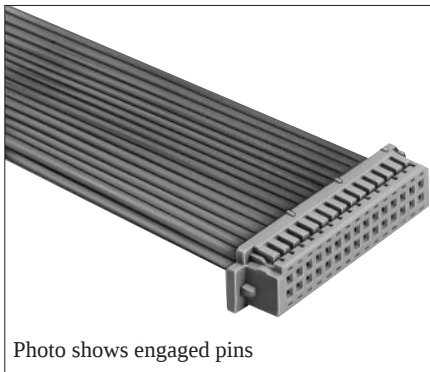
Unit : mm

HRS No.	Product No.	No. of contacts	A	B	HRS No.	Product No.	No. of contacts	A	B
536-0001-4-**-	DF13-2S-1.25C (**)	2	1.25	4.15	536-0008-3-**-	DF13- 9S-1.25C (**)	9	10.00	12.90
536-0002-7-**-	DF13-3S-1.25C (**)	3	2.50	5.40	536-0009-6-**-	DF13-10S-1.25C (**)	10	11.25	14.15
536-0003-0-**-	DF13-4S-1.25C (**)	4	3.75	6.65	536-0010-5-**-	DF13-11S-1.25C (**)	11	12.50	15.40
536-0004-2-**-	DF13-5S-1.25C (**)	5	5.00	7.90	536-0011-8-**-	DF13-12S-1.25C (**)	12	13.75	16.65
536-0005-5-**-	DF13-6S-1.25C (**)	6	6.25	9.15	536-0013-3-**-	DF13-14S-1.25C (**)	14	16.25	19.15
536-0006-8-**-	DF13-7S-1.25C (**)	7	7.50	10.40	536-0014-6-**-	DF13-15S-1.25C (**)	15	17.50	20.40
536-0007-0-**-	DF13-8S-1.25C (**)	8	8.75	11.65					

Note 1: Minimum order quantity of the models without a number specified is one pack containing 100 sockets.

Note 2: Models available in (40): 500 pieces per package and (41): 1000 pieces per pack should be ordered in quantity of sockets. Order in multiples of order units, e.g., 500, 1000, 1500,-- .

Double-row socket



Terminal No. 1 mark

Unit : mm

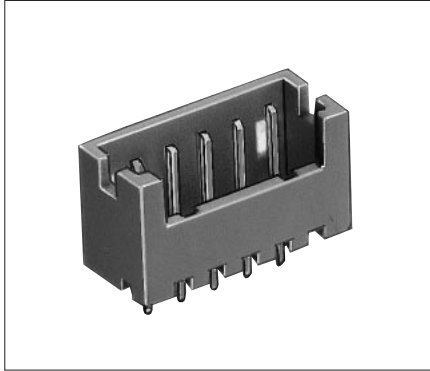
HRS No.	Product No.	No. of contacts	A	B
536-0550-2-**-	DF13-10DS-1.25C (**)	10	10.40	5.00
536-0555-6-**-	DF13-20DS-1.25C (**)	20	16.65	11.25
536-0560-6-**-	DF13-30DS-1.25C (**)	30	22.90	17.50
536-0565-0-**-	DF13-40DS-1.25C (**)	40	29.15	23.75

[Specification No.]: -**,(**)
 Blank : 100 pcs. per pack
 (40) : 500 pcs. per package
 (41) : 1000 pcs. per package

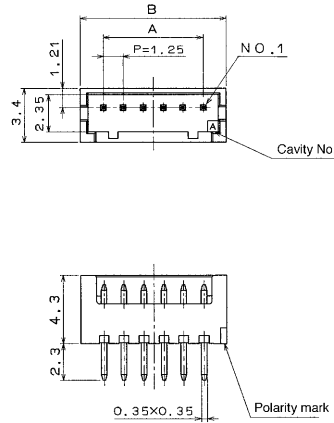
Note 1: Minimum order quantity of the models without a number specified is one pack containing 100 sockets.

Note 2: Models available in (40): 500 pieces per package and (41): 1000 pieces per pack should be ordered in quantity of sockets. Order in multiples of order units, e.g., 500, 1000, 1500,-- .

Single-row Straight Pin Header (DIP)



●Board through-hole diameter : $\varnothing 0.6 \pm 0.03$



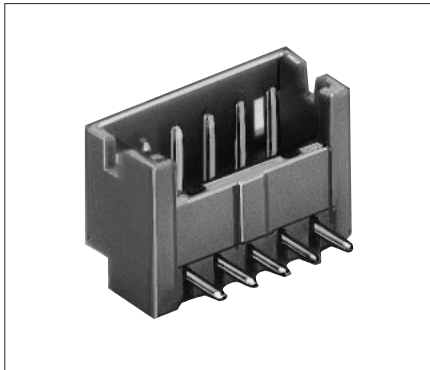
[Specification No.]: -**, (**)
Blank : Tin-plated

Unit : mm

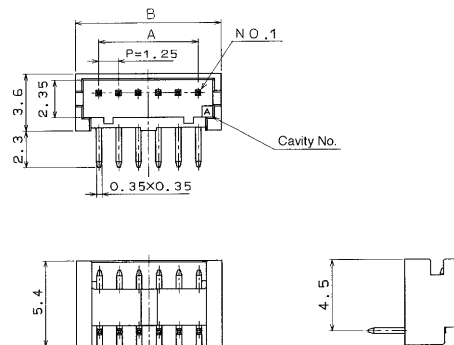
HRS No.	Product No.	No. of contacts	A	B	HRS No.	Product No.	No. of contacts	A	B
536-0101-9-**-	DF13-2P-1.25DSA (**)	2	1.25	4.15	536-0108-8-**-	DF13- 9P-1.25DSA (**)	9	10.00	12.90
536-0102-1-**-	DF13-3P-1.25DSA (**)	3	2.50	5.40	536-0109-0-**-	DF13-10P-1.25DSA (**)	10	11.25	14.15
536-0103-4-**-	DF13-4P-1.25DSA (**)	4	3.75	6.65	536-0110-0-**-	DF13-11P-1.25DSA (**)	11	12.50	15.40
536-0104-7-**-	DF13-5P-1.25DSA (**)	5	5.00	7.90	536-0111-2-**-	DF13-12P-1.25DSA (**)	12	13.75	16.65
536-0105-0-**-	DF13-6P-1.25DSA (**)	6	6.25	9.15	536-0113-8-**-	DF13-14P-1.25DSA (**)	14	16.25	19.15
536-0106-2-**-	DF13-7P-1.25DSA (**)	7	7.50	10.40	536-0114-0-**-	DF13-15P-1.25DSA (**)	15	17.50	20.40
536-0107-5-**-	DF13-8P-1.25DSA (**)	8	8.75	11.65					

Note : Minimum order quantity of the models without a number specified is one pack containing 100 sockets.

Single-row Right-angle Pin Header (DIP)

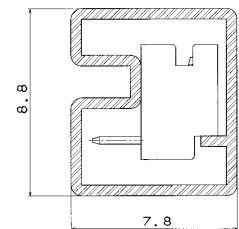


●Board through-hole diameter : $\varnothing 0.6 \pm 0.03$



[Specification No.]: -**, (**)
(20): Tin-plated, magazine packaging

Magazine dimension

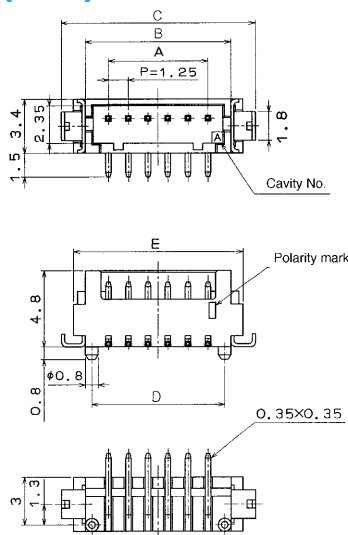
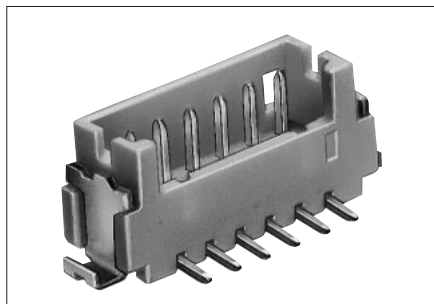


Unit : mm

HRS No.	Product No.	No. of contacts	A	B	No. of products in a magazine	HRS No.	Product No.	No. of contacts	A	B	No. of products in a magazine
536-0151-7-**-	DF13-2P-1.25DS (**)	2	1.25	4.15	115	536-0158-6-**-	DF13- 9P-1.25DS (**)	9	10.00	12.90	37
536-0152-0-**-	DF13-3P-1.25DS (**)	3	2.50	5.40	89	536-0159-9-**-	DF13-10P-1.25DS (**)	10	11.25	14.15	34
536-0153-2-**-	DF13-4P-1.25DS (**)	4	3.75	6.65	72	536-0160-8-**-	DF13-11P-1.25DS (**)	11	12.50	15.40	31
536-0154-5-**-	DF13-5P-1.25DS (**)	5	5.00	7.90	61	536-0161-0-**-	DF13-12P-1.25DS (**)	12	13.75	16.65	29
536-0155-8-**-	DF13-6P-1.25DS (**)	6	6.25	9.15	52	536-0163-6-**-	DF13-14P-1.25DS (**)	14	16.25	19.15	25
536-0156-0-**-	DF13-7P-1.25DS (**)	7	7.50	10.40	46	536-0164-9-**-	DF13-15P-1.25DS (**)	15	17.50	20.40	23
536-0157-3-**-	DF13-8P-1.25DS (**)	8	8.75	11.65	41						

Note: Order magazine-packaged products in multiples of the amount contained in a magazine.

■ Single-row Straight Pin Header (SMT)



[Specification No.]: -**,(**)

(20) : Tin-plated, magazine packaging

(50) : Gold-plated, magazine packaging

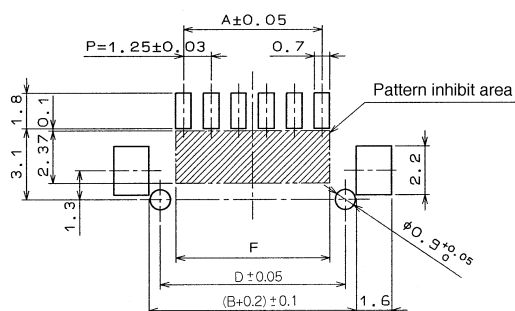
Having a box type housing, the pin headers of this model have no embossed suction surface and are not available in the embossed packaging specification.

Unit : mm

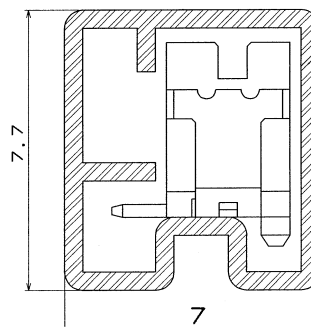
HRS No.	Product No.	No. of contacts	A	B	C	D	E	F	No. of products in a magazine	Remarks
536-0201-3-*	DF13- 2P-1.25V (**)	2	1.25	4.15	7.15	3.35	5.65	1.95	67	Guide post: Provided
536-0202-6-*	DF13- 3P-1.25V (**)	3	2.50	5.40	8.40	4.60	6.90	3.20	57	
536-0203-9-*	DF13- 4P-1.25V (**)	4	3.75	6.65	9.65	5.85	8.15	4.45	49	
536-0204-1-*	DF13- 5P-1.25V (**)	5	5.00	7.90	10.90	7.10	9.40	5.70	44	
536-0205-4-*	DF13- 6P-1.25V (**)	6	6.25	9.15	12.15	8.35	10.65	6.95	39	
536-0206-7-*	DF13- 7P-1.25V (**)	7	7.50	10.40	13.40	9.60	11.90	8.20	36	
536-0207-0-*	DF13- 8P-1.25V (**)	8	8.75	11.65	14.65	10.85	13.15	9.45	33	
536-0208-2-*	DF13- 9P-1.25V (**)	9	10.00	12.90	15.90	12.10	14.40	10.70	30	
536-0209-5-*	DF13-10P-1.25V (**)	10	11.25	14.15	17.15	13.35	15.65	11.95	28	
536-0210-4-*	DF13-11P-1.25V (**)	11	12.50	15.40	18.40	14.60	16.90	13.20	26	
536-0211-7-*	DF13-12P-1.25V (**)	12	13.75	16.65	19.65	15.85	18.15	14.45	24	
536-0213-2-*	DF13-14P-1.25V (**)	14	16.25	19.15	22.15	18.35	20.65	16.95	21	
536-0214-5-*	DF13-15P-1.25V (**)	15	17.50	20.40	23.40	19.60	21.90	18.20	20	

Note: Order magazine-packaged products in multiples of the amount contained in a magazine.

❖ Recommended board pattern



❖ Magazine dimensional drawing

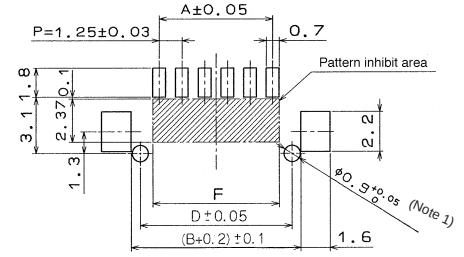
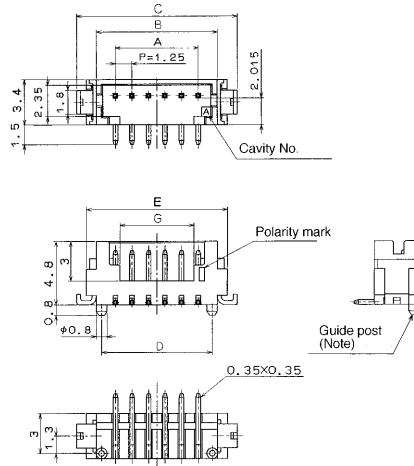
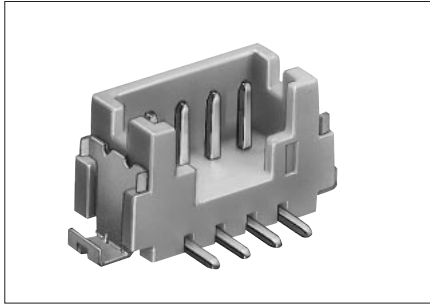


Note: When a part marked with has a pattern and no resist on it, take care to prevent the connector terminal from contacting it.

Single-row Straight Header (SMT)

(Three-wall type compatible with emboss suction)

Recommended board pattern



Note 1: The hole is not required for products without the guide.

Note 2: When a part marked with  has a pattern and no resist on it, take care to prevent the connector terminal from contacting it.

The pin headers of this model are three-wall type and have an embossed suction surface, and are thus compatible with suction-operated automatic packaging.

[Specification No.]: -**,(**)

(20) : Tin-plated, magazine packaging

(21) : Tin-plated, embossed packaging

(50) : Gold-plated, magazine packaging

(51) : Gold-plated, embossed packaging

Unit : mm

HRS No.	Product No.	No. of contacts	A	B	C	D	E	F	G	No. of products in a magazine	Emboss Width	Remarks
536-0051-2-**-**	DF13B- 2P-1.25V (**)	2	1.25	4.15	7.15	3.35	5.65	1.95	2.20	67	16	Guide post: Provided
536-0052-5-**-**	DF13B- 3P-1.25V (**)	3	2.50	5.40	8.40	4.60	6.90	3.20	3.45	57	16	
536-0053-8-**-**	DF13B- 4P-1.25V (**)	4	3.75	6.65	9.65	5.85	8.15	4.45	3.10	49	24	
536-0054-0-**-**	DF13B- 5P-1.25V (**)	5	5.00	7.90	10.90	7.10	9.40	5.70	4.35	44	24	
536-0055-3-**-**	DF13B- 6P-1.25V (**)	6	6.25	9.15	12.15	8.35	10.65	6.95	5.60	39	24	
536-0056-6-**-**	DF13B- 7P-1.25V (**)	7	7.50	10.40	13.40	9.60	11.90	8.20	6.85	36	24	
536-0057-9-**-**	DF13B- 8P-1.25V (**)	8	8.75	11.65	14.65	10.85	13.15	9.45	8.10	33	24	
536-0058-1-**-**	DF13B- 9P-1.25V (**)	9	10.00	12.90	15.90	12.10	14.40	10.70	9.35	30	24	
536-0059-4-**-**	DF13B-10P-1.25V (**)	10	11.25	14.15	17.15	13.35	15.65	11.95	10.60	28	24	
536-0060-3-**-**	DF13B-11P-1.25V (**)	11	12.50	15.40	18.40	14.60	16.90	13.20	11.85	26	32	
536-0061-6-**-**	DF13B-12P-1.25V (**)	12	13.75	16.65	19.65	15.85	18.15	14.45	13.10	24	32	
536-0063-1-**-**	DF13B-14P-1.25V (**)	14	16.25	19.15	22.15	18.35	20.65	16.95	15.60	21	32	
536-0064-4-**-**	DF13B-15P-1.25V (**)	15	17.50	20.40	23.40	19.60	21.90	18.20	16.85	20	44	
536-0401-2-**-**	DF13C- 2P-1.25V (**)	2	1.25	4.15	7.15	—	5.65	1.95	2.20	67	16	Guide post: Not Provided
536-0402-5-**-**	DF13C- 3P-1.25V (**)	3	2.50	5.40	8.40	—	6.90	3.20	3.45	57	16	
536-0403-8-**-**	DF13C- 4P-1.25V (**)	4	3.75	6.65	9.65	—	8.15	4.45	3.10	49	24	
536-0404-0-**-**	DF13C- 5P-1.25V (**)	5	5.00	7.90	10.90	—	9.40	5.70	4.35	44	24	
536-0405-3-**-**	DF13C- 6P-1.25V (**)	6	6.25	9.15	12.15	—	10.65	6.95	5.60	39	24	
536-0406-6-**-**	DF13C- 7P-1.25V (**)	7	7.50	10.40	13.40	—	11.90	8.20	6.85	36	24	
536-0407-9-**-**	DF13C- 8P-1.25V (**)	8	8.75	11.65	14.65	—	13.15	9.45	8.10	33	24	
536-0408-1-**-**	DF13C- 9P-1.25V (**)	9	10.00	12.90	15.90	—	14.40	10.70	9.35	30	24	
536-0409-4-**-**	DF13C-10P-1.25V (**)	10	11.25	14.15	17.15	—	15.65	11.95	10.60	28	24	
536-0410-3-**-**	DF13C-11P-1.25V (**)	11	12.50	15.40	18.40	—	16.90	13.20	11.85	26	32	
536-0411-6-**-**	DF13C-12P-1.25V (**)	12	13.75	16.65	19.65	—	18.15	14.45	13.10	24	32	
536-0413-1-**-**	DF13C-14P-1.25V (**)	14	16.25	19.15	22.15	—	20.65	16.95	15.60	21	32	
536-0414-4-**-**	DF13C-15P-1.25V (**)	15	17.50	20.40	23.40	—	21.90	18.20	16.85	20	44	

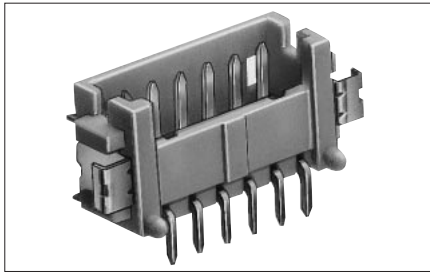
Note 1: Order magazine packaged products in multiples of the number in one magazine.

Note 2: Order embossed packaged product in reels (1,000 pcs. per reel).

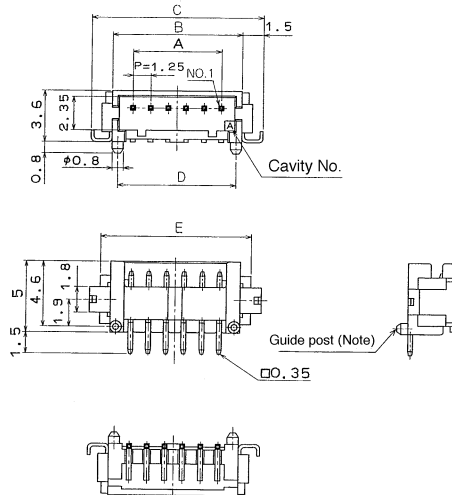
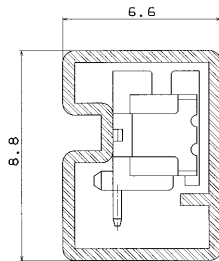
Single-row Right-angle Pin Header (SMT)

(Four-wall type compatible with emboss suction)

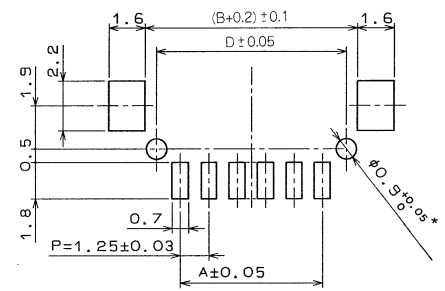
❖ Recommended board pattern



❖ Magazine dimensional drawing



Note: The model without the above guide post does not have the boss.



* Note: The hole is not required for products without the guide boss.

[Specification No.]: -**, (**)

(20) : Tin-plated, magazine packaging

(21) : Tin-plated, embossed packaging

(50) : Gold-plated, magazine packaging

(51) : Gold-plated, embossed packaging

Unit : mm

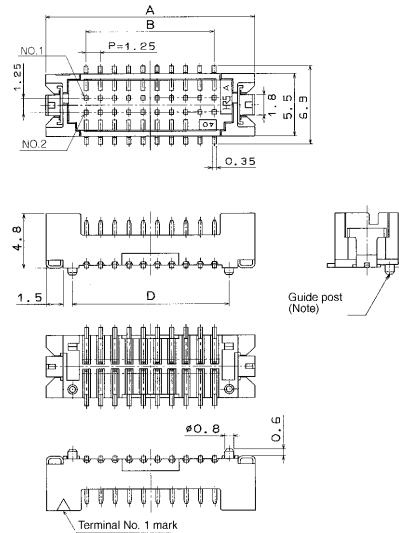
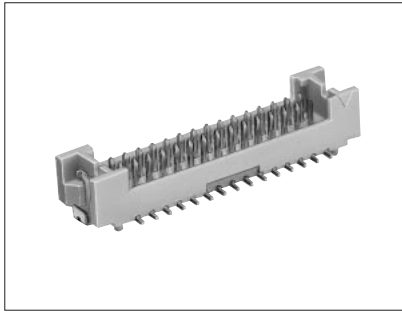
HRS No.	Product No.	No. of contacts	A	B	C	D	E	No. of products in a magazine	Emboss Width	Remarks
536-0251-1-**-	DF13 - 2P-1.25H (**)	2	1.25	4.15	7.15	3.35	5.65	67	16	Guide post: Provided
536-0252-4-**-	DF13 - 3P-1.25H (**)	3	2.50	5.40	8.40	4.60	6.90	57	16	
536-0253-7-**-	DF13 - 4P-1.25H (**)	4	3.75	6.65	9.65	5.85	8.15	49	24	
536-0254-0-**-	DF13 - 5P-1.25H (**)	5	5.00	7.90	10.90	7.10	9.40	44	24	
536-0255-2-**-	DF13 - 6P-1.25H (**)	6	6.25	9.15	12.15	8.35	10.65	39	24	
536-0256-5-**-	DF13 - 7P-1.25H (**)	7	7.50	10.40	13.40	9.60	11.90	36	24	
536-0257-8-**-	DF13 - 8P-1.25H (**)	8	8.75	11.65	14.65	10.85	13.15	33	24	
536-0258-0-**-	DF13 - 9P-1.25H (**)	9	10.00	12.90	15.90	12.10	14.40	30	24	
536-0259-3-**-	DF13 -10P-1.25H (**)	10	11.25	14.15	17.15	13.35	15.65	28	24	
536-0260-2-**-	DF13 -11P-1.25H (**)	11	12.50	15.40	18.40	14.60	16.90	26	32	
536-0261-5-**-	DF13 -12P-1.25H (**)	12	13.75	16.65	19.65	15.85	18.15	24	32	
536-0263-0-**-	DF13 -14P-1.25H (**)	14	16.25	19.15	22.15	18.35	20.65	21	32	
536-0264-3-**-	DF13 -15P-1.25H (**)	15	17.50	20.40	23.40	19.60	21.90	20	44	
536-0301-8-**-	DF13A- 2P-1.25H (**)	2	1.25	4.15	7.15	—	5.65	67	16	Guide post: Not Provided
536-0302-0-**-	DF13A- 3P-1.25H (**)	3	2.50	5.40	8.40	—	6.90	57	16	
536-0303-3-**-	DF13A- 4P-1.25H (**)	4	3.75	6.65	9.65	—	8.15	49	24	
536-0304-6-**-	DF13A- 5P-1.25H (**)	5	5.00	7.90	10.90	—	9.40	44	24	
536-0305-9-**-	DF13A- 6P-1.25H (**)	6	6.25	9.15	12.15	—	10.65	39	24	
536-0306-1-**-	DF13A- 7P-1.25H (**)	7	7.50	10.40	13.40	—	11.90	36	24	
536-0307-4-**-	DF13A- 8P-1.25H (**)	8	8.75	11.65	14.65	—	13.15	33	24	
536-0308-7-**-	DF13A- 9P-1.25H (**)	9	10.00	12.90	15.90	—	14.40	30	24	
536-0309-0-**-	DF13A-10P-1.25H (**)	10	11.25	14.15	17.15	—	15.65	28	24	
536-0310-9-**-	DF13A-11P-1.25H (**)	11	12.50	15.40	18.40	—	16.90	26	32	
536-0311-1-**-	DF13A-12P-1.25H (**)	12	13.75	16.65	19.65	—	18.15	24	32	
536-0313-7-**-	DF13A-14P-1.25H (**)	14	16.25	19.15	22.15	—	20.65	21	32	
536-0314-0-**-	DF13A-15P-1.25H (**)	15	17.50	20.40	23.40	—	21.90	20	44	

Note 1: Order magazine packaged products in multiples of the number in one magazine.

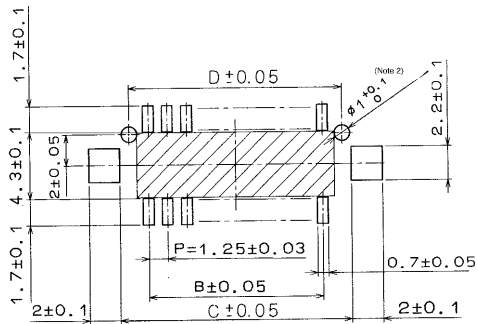
Note 2: Order embossed packaged product in reels (1,000 pcs. per reel).

Double-row Right-angle Pin Header (SMT)

(Four-wall type compatible with emboss suction)



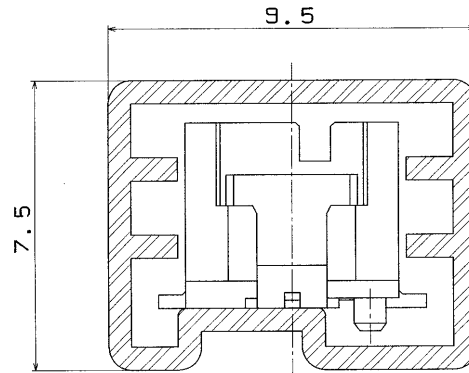
Recommended board pattern



Note 1: When a part marked with  has a pattern and no resist on it, take care to prevent the connector terminal from contacting it.

Note 2: The hole is not required for products without the guide.

Magazine dimensional drawing



[Specification No.]: -**,(**)

(20) : Tin-plated, magazine packaging
(29) : Tin-plated, embossed packaging
(50) : Gold-plated, magazine packaging
(59) : Gold-plated, embossed packaging

Unit : mm

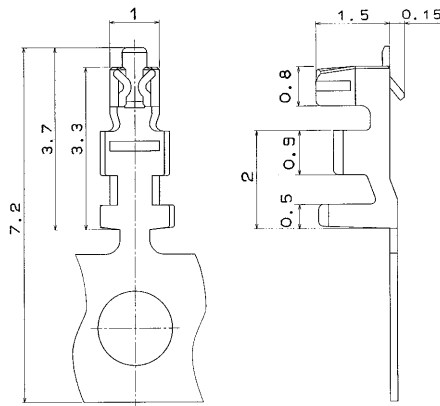
HRS No.	Product No.	No. of contacts	A	B	C	D	Spec. (20)	Spec. (29)	Spec. (50)	Spec. (59)	No. of products in a magazine	Emboss Width	Remarks
536-0510-8-**-**	DF13 -10DP-1.25V (**)	10	12.10	5.00	8.70	7.50	○	○	○	○	40	24	Guide post: Provided
536-0515-1-**-**	DF13 -20DP-1.25V (**)	20	18.35	11.25	14.95	13.75	○	○	○	○	26	32	
536-0520-1-**-**	DF13 -30DP-1.25V (**)	30	24.60	17.50	21.20	20.00	—	—	○	○	19	44	
536-0525-5-**-**	DF13 -40DP-1.25V (**)	40	30.85	23.75	27.45	26.25	—	—	○	○	15	44	
536-0600-9-**-**	DF13A-10DP-1.25V (**)	10	12.10	5.00	8.70	—	○	○	○	○	40	24	Guide post: Not Provided
536-0605-2-**-**	DF13A-20DP-1.25V (**)	20	18.35	11.25	14.95	—	○	○	○	○	26	32	
536-0610-2-**-**	DF13A-30DP-1.25V (**)	30	24.60	17.50	21.20	—	—	—	○	○	19	44	
536-0615-6-**-**	DF13A-40DP-1.25V (**)	40	30.85	23.75	27.45	—	—	—	○	○	15	44	

Note 1: Order magazine packaged products in multiples of the number in one magazine.

Note 2: Order embossed packaged product in reels (1,000 pcs. per reel).

Note 3: Embossed tape packaged products will be provided with suction area.

■ Crimp terminal



HRS No.	Product No.	Type	Quantity	Processing
536-0300-5	DF13-2630SCF	Reel terminal	10,000 units per reel	Tin-plated
536-0298-5	DF13-2630SCFA	Reel terminal	10,000 units per reel	Gold-plated

● Applicable wire (Tin-plated annealed copper wire)

Conductor size (core construction)	Coating diameter
AWG26 (7 cores/0.16 mm)	ø0.65~ø1.0mm
AWG28 (7 cores/0.127 mm)	
AWG30 (7 cores/0.1 mm)	

Note: Contact our sales department for unspecified wires.

● Recommended wire

UL1571

● Strip length

1.2~1.9mm

❖ Applicable crimping tool

Type	HRS No.	Product No.	Applicable contact
Applicator	901-4531-9	AP105-DF13-2630S	DF13-2630SCF/SCFA
Press body	901-0005-4	CM-105	
Manual crimping tool	550-0256-1	DF13-TB2630HC	DF13-2630SCF
Extraction tool	550-0179-2	DF-C-PO (B)	DF13-2630SCF

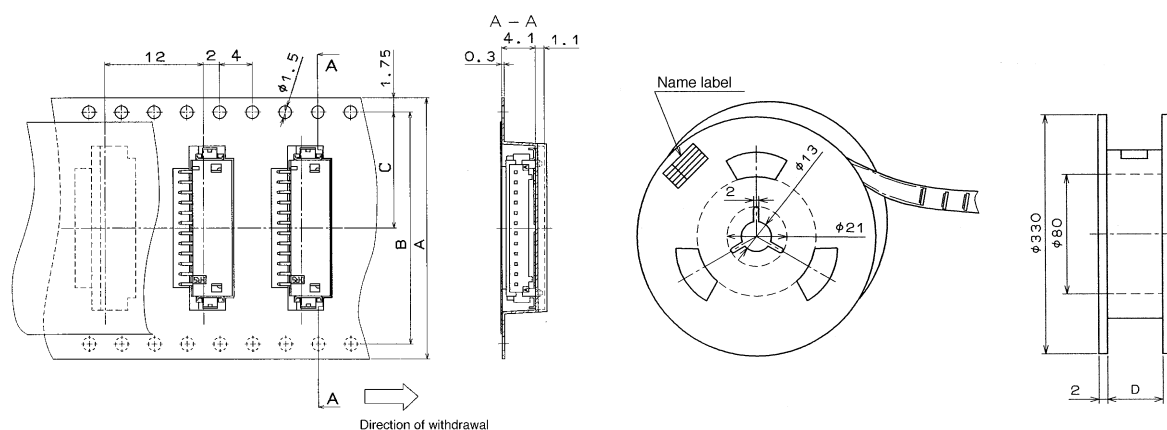
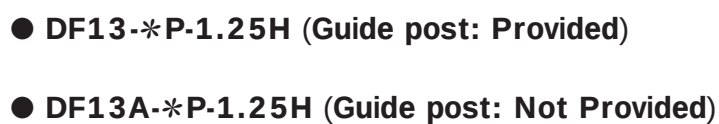
Note 1: Any problem caused by using a tool not approved by HIROSE is out of warranty.

Note 2: The manual crimping tool consecutively cuts carrier-fitted reel terminals.

❖ Application drawing

	SMT (single row)	DIP (single row)	SMT (double rows)
Right angle			SMT type right-angle model (double-row) is not available.
Straight			

- **DF13B-*P-1.25V (Guide post: Provided)**
- **DF13C-*P-1.25V (Guide post: Not Provided)**



Unit : mm

Product type	Dimension	No. of contact	A	B	C	D
DF13B-*P-1.25V		2, 3	16	—————	7.5	16.4
DF13C-*P-1.25V		4~10	24	—————	11.5	24.4
DF13 -*P-1.25H		11~14	32	28.4	14.2	32.4
DF13A-*P-1.25H		15	44	40.4	20.2	44.4

Note: 13-pin models are not available in series.

❖ Notes on use

1. Recommended temperature profile (SMT)	Temperature IR reflow conditions <table><tr><td>Preheating part</td><td>150°C</td><td>60 ~120 sec.</td></tr><tr><td>Soldering part</td><td>235 ± 5°C</td><td>less than 10 sec.</td></tr><tr><td></td><td>220°C or more</td><td>10 ~ 30 sec.</td></tr></table> 250℃ 200℃ 150℃ 100℃ 50℃ 0℃ 0 Sec 50 Sec 100 Sec 150 Sec 200 Sec Time Maximum 240℃ 220℃ Preheating part Soldering part Note 1: You can solder a product up to two times under the same conditions, provided that the product is allowed to cool back to room temperature before the second soldering. Note 2: The above temperature refers to the board surface temperature of the connector lead.	Preheating part	150°C	60 ~120 sec.	Soldering part	235 ± 5°C	less than 10 sec.		220°C or more	10 ~ 30 sec.
Preheating part	150°C	60 ~120 sec.								
Soldering part	235 ± 5°C	less than 10 sec.								
	220°C or more	10 ~ 30 sec.								
2. Recommended soldering conditions (SMT)	Soldering iron temperature: 290±10°C, soldering time: less than 3 seconds									
3. Recommended screen thickness (SMT)	0.15mm~0.2mm									
4. Warp in board (SMT)	0.03 mm or less at the center of the connector with the connector ends as the reference.									
5. Recommended soldering condition (DIP)	■ Reflow conditions by automatic soldering machine: Soldering temperature: 250± 5°C, for 3 seconds or less. ■ Manual soldering conditions : Soldering iron temperature: 290±10°C, soldering time: 2 second or less.									
6. Cleaning conditions	See "GUIDE TO HIROSE NYLON CONNECTORS."									
7. Connecting conditions	See "GUIDE TO HIROSE NYLON CONNECTORS." ■ Because the crimp terminals are very small, use utmost care when crimping them in accordance with the"Crimping conditions list" and "Crimping quality standards."									
8. PRECAUTIONS	■ When inserting or extracting the connectors, do not pry them forcibly, to prevent them from being damaged.									