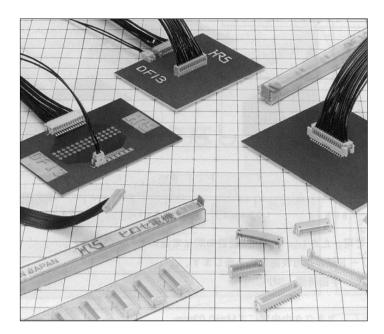
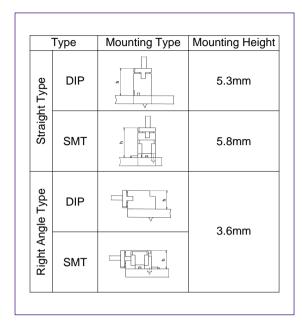
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# 1.25mm Pitch Miniature Crimping Connector

#### **DF13 Series**





#### **■**Features

#### 1. Miniature Size

Designed in the low profile at mounting height 5.8mm. (SMT mounting straight type)

(For DIP type, the mounting height is to 5.3mm to the straight and 3.6mm at the right angle)

#### 2. Multi-contact

The double row type achieves the multi-contact up to 40 contacts, and secures 30% higher density in the mounting area, compared with the single row type.

#### 3. Correspond to Automatic Mounting

The header provides the grade with the vacuum absorption area, and secures automatic mounting by the embossed tape packaging.

In addition, the tube packaging can be selected.

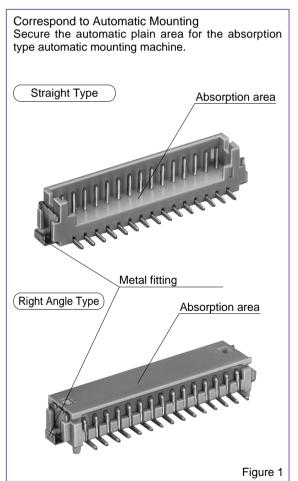
#### 4. Integral Basic Function Despite Miniature Size

The header is designed in a scoop-proof box structure, and completely prevents mis-insertion.

In addition, the surface mounting (SMT) header is equipped with the metal fitting to prevent solder peeling.

# **■**Applications

Note PC, mobile terminal, miniature type business equipment, and other various consumer equipment, including video camera



# **■**Product Specifications

Rating	Current rating 1	1A	Operating Temperature Range: −35 to +85°C (Note 1)	Storage Temperature Range: -10 to +60℃ (No	te 2)
raung	Voltage rating '	150V AC	Operating Moisture Range: 40 to 80%	Storage Moisture Range: 40 to 70% (No	te 2)

Item	Specification	Condition				
1.Insulation Resistance	500M ohms min.	100V DC				
2.Withstanding voltage	No flashover or insulation breakdown.	500V AC/1 minute				
3.Contact Resistance	30m ohms max.	100mA				
4.Single Insertion/Extraction Force	0.3N (30gf) min., 3N (300gf) max.	Measured at the square steel pin of 0.35±0.002mm				
5.Vibration	No electrical discontinuity of 1 $\mu$ s or more	Frequency: 10 to 55 Hz, single amplitude of 0.75 mm, 2 hours in each of the 3 directions.				
6.Humidity (Steady state)	Contact resistance: 30m ohms max. Insulation resistance: 500M ohms min.	96 hours at temperature of 40°C and humidity of 90% to 9				
7.Temperature Cycle	Contact resistance: 30m ohms max. Insulation resistance: 500M ohms min.	(-55°C: 30 minutes→ 5 to 35°C: 10 minutes→ 85°C: 30 minutes→ 5 to 35°C: 10 minutes) 5 cycles				
8. Durability (Mating/un-mating)	Contact resistance: 30m ohms max.	Tin plating: 30 cycles				
		Gold plating: 50 cycles				
9.Resistance to Soldering heat	No deformation of components affecting performance.	Flow: 250℃ for 10 seconds				
		Manual soldering: 300℃ for 3 seconds				
		Reflow: At the recommended temperature profile				
		Manual soldering: 300℃ for 3 seconds				

Note 1: Includes 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 Range and Humidity range covers non conducting condition of installed connectors in storage, shipment or during transportation.

#### **■**Material

Product	Part	Material	Finish	Remarks
Crimping Socket	Insulator	Polyamide	Beige	UL94V-0
Crimping Contact for Socket	Contact	Phosphor copper	Tin plated or gold plated	
Die Heeder (Theoret hele)	Insulator	Polyamide	Beige	UL94V-0
Pin Header (Through hole)	Contact	Brass	Tin plated	
	Insulator	Polyamide	Beige	UL94V-0
Pin Header (SMT)	Contact	Brass	Tin plated or gold plated	
	Metal Fitting	Phosphor copper	Tin plated	

# **■**Ordering Information

Connector

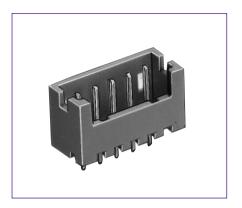
Series Name	: DF13	3 Number of Contacts	5 Contact Pitch: 1.25mm			
Style Symbol	: Blank: With boss	Single row: 2 to 12, 14, 15	6 Contact Type			
	A: Without boss	Double row: 10, 20, 30, 40	C : Crimping socket / DSA : Straight through hole			
V Type — B: With boss, embossed tape type		4 Connector Type	DS: Right angle through hole / V: Straight SN			
	C: Without boss, embossed tape type	S: Single row socket / P: Single row pin header	H : Right angle SMT			
		DS: Double row socket / DP: Double row pin header				

**●**Contact

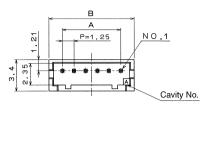
DF 13 -  $\frac{2630}{9} \frac{SCF}{9} \frac{A}{9}$ 

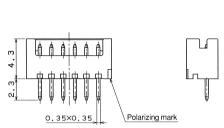
Applicable Cable Size 2630: AWG26 to 30	3 Plating Type	Blank: Tin plated
2 Packaging Type SCF: Socket Contact/Reel		A : Gold plated

### ■Single Row Straight Pin Header (Through hole)

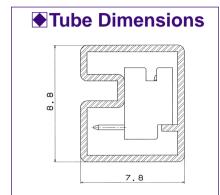


◆Board Through-hole Diameter: \$\phi 0.6\pm 0.03





[Specific No.] - \*\*, (\*\*) Blank: Tin plated 20: Tin plated, tube packaging



Unit: mm

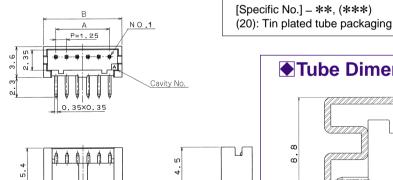
Part Number	CL No.	Number of Contacts	Α	В	Part Number	CL No.	Number of Contacts	Α	В
DF13-2P-1.25DSA(**)	536-0101-9-**	2	1.25	4.15	DF13- 9P-1.25DSA(**)	536-0108-8-**	9	10.00	12.90
DF13-3P-1.25DSA(**)	536-0102-1-**	3	2.50	5.40	DF13-10P-1.25DSA(**)	536-0109-0-**	10	11.25	14.15
DF13-4P-1.25DSA(**)	536-0103-4-**	4	3.75	6.65	DF13-11P-1.25DSA(**)	536-0110-0-**	11	12.50	15.40
DF13-5P-1.25DSA(**)	536-0104-7-**	5	5.00	7.90	DF13-12P-1.25DSA(**)	536-0111-2-**	12	13.75	16.65
DF13-6P-1.25DSA(**)	536-0105-0-**	6	6.25	9.15	DF13-13P-1.25DSA(**)	536-0112-5-**	13	15.00	17.90
DF13-7P-1.25DSA(**)	536-0106-2-**	7	7.50	10.40	DF13-14P-1.25DSA(**)	536-0113-8-**	14	16.25	19.15
DF13-8P-1.25DSA(**)	536-0107-5-**	8	8.75	11.65	DF13-15P-1.25DSA(**)	536-0114-0-**	15	17.50	20.40

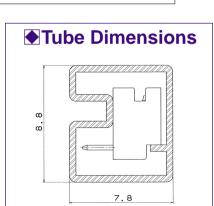
Note 1.The quantity at the specific No. "None" is delivered per bag (100 pcs.). If needed, please select and order the products per bag.

# **■**Single Row Right Angle Pin Header (Through hole)



●Board Through-hole Diameter: $\phi$ 0.6±0.03





Unit: mm

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

Note 1. Order the tube packaging product, multiplying the tube packaging quantity.