2. Performance Enhancement

The receptacle is designed in a BOX structure and has also enhanced shock-proof, pinch-proof and scoop-proof performance. In addition, the receptacle contact has employed the high scoop-proof bellows type.

3. With Metal Fitting available

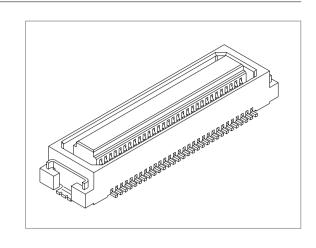
In order to grade up the strength against the mechanical stress, the metal fitting specification is also available.

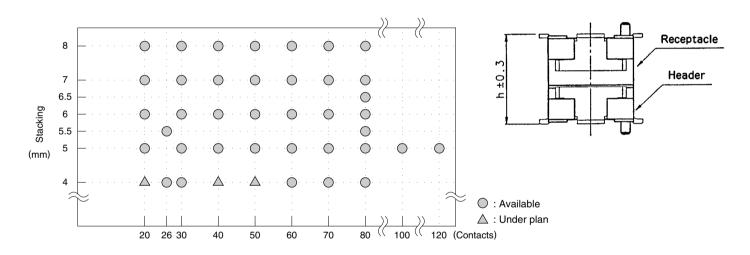
4. Broad Variations in Contact Number

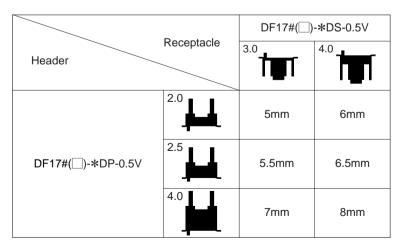
The connectors are lined up per 10 contacts between 20 and 80 contacts to take countermeasures for multi-signalization.

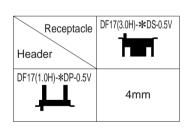
5. Stacking Height 4 to 8mm

The stacking height can be selected (per milimeter) between 4mm and 8mm in combination of the receptacle with the header.









Note: The stacking height doesn't include the solder paste thickness.

■ Applications

Mobile phones, LCD, miniature equipment and so on

■Product Specifications

Dating	Current rating	0.3A	Operating Temperature Range	-35 to 85°C (Note 1)	Storage Temperature Range	-10 to 60°C(Note 2)
Rating	Voltage rating	50V AC	Operating Humidity Range	40 to 80%	Storage Humidity Range	40 to 70%

Item	Specification	Condition			
1. Insulation Resistance	500M ohms min.	100V DC			
2. Withstanding voltage	No flashover or insulation breakdown.	150V AC/1 minute			
3. Contact Resistance	60m ohms max.	100mA			
4. 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.			
5. Humidity (Steady state)	Contact resistance: 60m ohms max Insulation resistance:250M ohms min	96 hours at temperature of 40°C and humidity of 90% to 95%			
6. Temperature Cycle	Contact resistance: 60m 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			
7. Durability (Mating/un-mating)	Contact resistance: 60m ohms	50 cycles			
8. Resistance to	No defermation of common to offerting newformance	Reflow: At the recommended temperature profile			
Soldering heat	No deformation of components affecting performance.	Manual soldering: 350℃ 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.

Note 3: Information contained in this catalog represents general requirements for this Series. Contact us for the drawings and specifications for a specific part number shown.

■Material

Product	Part	Material	Finish	Remarks
	Insulator	Polyamide	White	UL94V-0
Receptacle	Contact	Phosphor copper	Gold plated (Note 1)	
	Metal Fitting	Phosphor copper	Tin-lead plated	
	Insulator	Polyamide	White	UL94V-0
Header	Contact	Phosphor copper	Gold plated (Note 2)	
	Metal Fitting	Phosphor copper	Tin-lead plated	

Note1: DF17(0.3)-*DS-0.5V: Contact area: gold plating/lead area: flash gold plated

DF17(4.0)-*DS-0.5V: Contact area: gold plating/lead area: tin plated DF17(4.0)-*DP-0.5V: Contact area: gold plating/lead area: tin plated

Note2: The header gold plated product: Contact area: gold plating/lead area: tin plated

DF17(1.0H)-*DS-0.5V only: Contact area: gold plating/lead area: flash gold plated

●Ordering Information

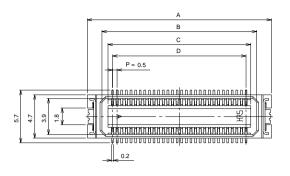
●Receptacle/Header

$$\frac{\mathsf{DF17}}{\bullet} \ \ ^{\#}_{\ 2} \ \ \frac{(**)}{\bullet} \ \ ^{-} \ \ ^{\#}_{\ 4} \ \frac{\mathsf{DS}}{\bullet} \ \ ^{-}_{\ 6} \ \frac{\mathsf{0.5}}{\bullet} \ \frac{\mathsf{V}}{\bullet} \ \frac{(**)}{\bullet}$$

Series Name	e: DF17		Number of Contacts
2 Type			20,26,30,40,50,60,70,80,100,120contacts
	Fitting	Boss	Connector Type
DF17	0	0	DS: Receptacle DP: Header
DF17B		×	6 Contact Pitch: 0.5mm
			Contact Type
			V: Straight SMT
Product height	ht		Packaging Type (57):Gold plated,embossed
	•	termined by adding teptacle and header.	

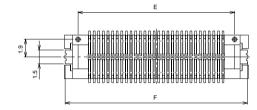
■ Receptacle With metal fitting











Stacking Height: 4mm

Part Number	CL No.	Number of Contacts	Α	В	С	D	Е	F	G	Н	RoHS
DF17(3.0H)-26DS-0.5V(57)	683-0253-2-57	26	11.5	8.3	7.0	6.0	8.5	11.3			
DF17(3.0H)-30DS-0.5V(57)	683-0268-0-57	30	12.5	9.3	8.0	7.0	9.5	12.3			
DF17(3.0H)-60DS-0.5V(57)	683-0361-5-57	60	20.0	16.8	15.5	14.5	17.0	19.8	3.0	3.0	YES
DF17(3.0H)-70DS-0.5V(57)	683-0393-1-57	70	22.5	19.3	18.0	17.0	19.5	22.3			
DF17(3.0H)-80DS-0.5V(57)	683-0369-7-57	80	25.0	21.8	20.5	19.5	22.0	24.8			

Stacking Height: 5mm, 7mm

Part Number	CL No.	Number of Contacts	Α	В	С	D	Е	F	G	Н	RoHS
DF17(3.0)- 20DS-0.5V(57)	683-0002-2-57	20	10.0	6.8	5.5	4.5	7.0	9.8			
DF17(3.0)- 26DS-0.5V(57)	683-0241-3-57	26	11.5	8.3	7.0	6.0	8.5	11.3			
DF17(3.0)- 30DS-0.5V(57)	683-0003-5-57	30	12.5	9.3	8.0	7.0	9.5	12.3			
DF17(3.0)- 40DS-0.5V(57)	683-0004-8-57	40	15.0	11.8	10.5	9.5	12.0	14.8			
DF17(3.0)- 50DS-0.5V(57)	683-0005-0-57	50	17.5	14.3	13.0	12.0	14.5	17.3	2.5	2.0	YES
DF17(3.0)- 60DS-0.5V(57)	683-0006-3-57	60	20.0	16.8	15.5	14.5	17.0	19.8	3.5	3.0	TES
DF17(3.0)- 70DS-0.5V(57)	683-0007-6-57	70	22.5	19.3	18.0	17.0	19.5	22.3			
DF17(3.0)- 80DS-0.5V(57)	683-0008-9-57	80	25.0	21.8	20.5	19.5	22.0	24.8			
DF17(3.0)-100DS-0.5V(57)	683-0010-0-57	100	30.0	26.8	25.5	24.5	27.0	29.8			
DF17(3.0)-120DS-0.5V(57)	683-0381-2-57	120	35.0	31.8	30.5	29.5	32.0	34.8			

Stacking Height: 6mm, 8mm

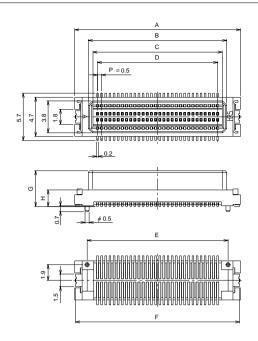
Part Number	CL No.	Number of Contacts	Α	В	С	D	Е	F	G	Н	RoHS
DF17(4.0)-20DS-0.5V(57)	683-0042-7-57	20	10.0	6.8	5.5	4.5	7.0	9.8			
DF17(4.0)-30DS-0.5V(57)	683-0043-0-57	30	12.5	9.3	8.0	7.0	9.5	12.3			
DF17(4.0)-40DS-0.5V(57)	683-0044-2-57	40	15.0	11.8	10.5	9.5	12.0	14.8			
DF17(4.0)-50DS-0.5V(57)	683-0045-5-57	50	17.5	14.3	13.0	12.0	14.5	17.3	4.5	4.0	YES
DF17(4.0)-60DS-0.5V(57)	683-0046-8-57	60	20.0	16.8	15.5	14.5	17.0	19.8			
DF17(4.0)-70DS-0.5V(57)	683-0047-0-57	70	22.5	19.3	18.0	17.0	19.5	22.3			
DF17(4.0)-80DS-0.5V(57)	683-0048-3-57	80	25.0	21.8	20.5	19.5	22.0	24.8			

Note 1. In regard to this product, the embossed tape packaging is the standard packaging. (1000 pcs./ reel.)

Note 2. If the without boss specification is required, please contact HRS sales department.

■ Header With metal fitting







Stacking Height: 4mm

Part Number	CL No.	Number of Contacts	Α	В	С	D	Е	F	G	Н	RoHS
DF17(1.0H)-26DP-0.5V(57)	683-0257-3-57	26	11.5	8.2	7.1	6.0	8.5	11.3			
DF17(1.0H)-30DP-0.5V(57)	683-0272-7-57	30	12.5	9.2	8.1	7.0	9.5	12.3			
DF17(1.0H)-60DP-0.5V(57)	683-0365-6-57	60	20.0	16.7	15.6	14.5	17.0	19.8	3.3	1.0	YES
DF17(1.0H)-70DP-0.5V(57)	683-0397-2-57	70	22.5	19.2	18.1	17.0	19.5	22.3			
DF17(1.0H)-80DP-0.5V(57)	683-0373-4-57	80	25.0	21.7	20.6	19.5	22.0	24.8			

Stacking Height: 5mm, 6mm

Part Number	CL No.	Number of Contacts	Α	В	С	D	Е	F	G	Н	RoHS
DF17(2.0)- 20DP-0.5V(57)	683-0082-1-57	20	10.0	6.7	5.6	4.5	7.0	9.8			
DF17(2.0)- 30DP-0.5V(57)	683-0083-4-57	30	12.5	9.2	8.1	7.0	9.5	12.3			
DF17(2.0)- 40DP-0.5V(57)	683-0084-7-57	40	15.0	11.7	10.6	9.5	12.0	14.8			
DF17(2.0)- 50DP-0.5V(57)	683-0085-0-57	50	17.5	14.2	13.1	12.0	14.5	17.3			
DF17(2.0)- 60DP-0.5V(57)	683-0086-2-57	60	20.0	16.7	15.6	14.5	17.0	19.8	4.3	2.0	YES
DF17(2.0)- 70DP-0.5V(57)	683-0087-5-57	70	22.5	19.2	18.1	17.0	19.5	22.3			
DF17(2.0)- 80DP-0.5V(57)	683-0088-8-57	80	25.0	21.7	20.6	19.5	22.0	24.8			
DF17(2.0)-100DP-0.5V(57)	683-0090-0-57	100	30.0	26.7	25.6	24.5	27.0	29.8			
DF17(2.0)-120DP-0.5V(57)	683-0385-3-57	120	35.0	31.7	30.6	29.5	32.0	34.8			

Stacking Height: 7mm, 8mm

Part Number	CL No.	Number of Contacts	Α	В	С	D	Е	F	G	Н	RoHS
DF17(4.0)-20DP-0.5V(57)	683-0122-4-57	20	10.0	6.7	5.6	4.5	7.0	9.8			
DF17(4.0)-30DP-0.5V(57)	683-0123-7-57	30	12.5	9.2	8.1	7.0	9.5	12.3			
DF17(4.0)-40DP-0.5V(57)	683-0124-0-57	40	15.0	11.7	10.6	9.5	12.0	14.8			
DF17(4.0)-50DP-0.5V(57)	683-0125-2-57	50	17.5	14.2	13.1	12.0	14.5	17.3	6.3	4.0	YES
DF17(4.0)-60DP-0.5V(57)	683-0126-5-57	60	20.0	16.7	15.6	14.5	17.0	19.8			
DF17(4.0)-70DP-0.5V(57)	683-0127-8-57	70	22.5	19.2	18.1	17.0	19.5	22.3			
DF17(4.0)-80DP-0.5V(57)	683-0128-0-57	80	25.0	21.7	20.6	19.5	22.0	24.8			

Stacking Height: 5.5mm,6.5mm

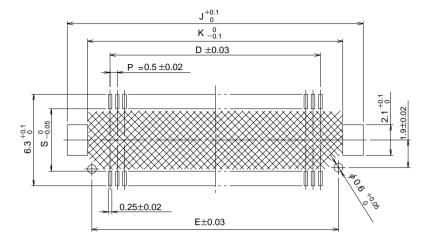
Part Number	CL No.	Number of Contacts	Α	В	С	D	Е	F	G	Н	RoHS
DF17(2.5)-26DP-0.5V(57)	683-0245-4-57	26	11.5	8.2	7.1	6.0	8.5	11.3	4.0	2.5	YES
DF17(2.5)-80DP-0.5V(57)	683-0168-5-57	80	25.0	21.7	20.6	19.5	22.0	24.8	4.8	2.5	TES

Note 1. In regard to this product, the embossed tape packaging is the standard packaging. (1000 pcs./reel.)

Note 2. If the without boss specification is required, please contact HRS sales department.

■ PCB mounting pattern

- Receptacle
- Header



Number of Contacts	D	Е	J	K
20	4.5	7.0	10.4	7.6
26	6.0	8.5	11.9	9.1
30	7.0	9.5	12.9	10.1
40	9.5	12.0	15.4	12.6
50	12.0	14.5	17.9	15.1
60	14.5	17.0	20.4	17.6
70	17.0	19.5	22.9	20.1
80	19.5	22.0	25.4	22.6
100	24.5	27.0	30.4	27.6
120	29.5	32.0	35.4	32.6

S	
Receptacle	4.3
Header	4

* The recommended solder paste thickness is $150\mu m$.

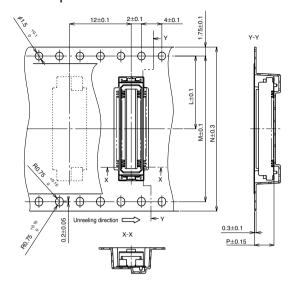
Note 1. If the pattern is included in the shaded area, and not treated with resist, it could touch the connector contact.

Note 2. If the boss isn't included, the boss hole shown in the above figure isn't required.

■ Packaging Specification

Embossed Carrier Tape Dimensions

■Receptacle



Connector	L	М	Р	Q	R
DF17#(3.0)-20DS-0.5V	11.5	24	3.8	25.5	330
DF17#(3.0)-30DS-0.5V	11.5	24	3.8	25.5	330
DF17#(3.0)-40DS-0.5V	11.5	24	3.8	25.5	330
DF17#(3.0)-26DS-0.5V	11.5	24	3.8	25.5	330

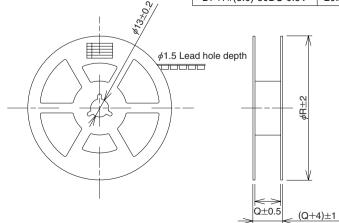
Connector	L	N	Р	Q	R
DF17#(4.0)-20DS-0.5V	11.5	24	4.8	25.5	330
DF17#(4.0)-30DS-0.5V	11.5	24	4.8	25.5	330
DF17#(4.0)-40DS-0.5V	11.5	24	4.8	25.5	330

Connector	L	М	N	Р	Q	R
DF17#(3.0)- 50DS-0.5V	14.2	28.4	32	3.8	33.5	330
DF17#(3.0)- 60DS-0.5V	14.2	28.4	32	3.8	33.5	330
DF17#(3.0)- 70DS-0.5V	20.2	40.4	44	3.8	45.5	330
DF17#(3.0)- 80DS-0.5V	20.2	40.4	44	3.8	45.5	330
DF17#(3.0)-100DS-0.5V	20.2	40.4	44	3.8	45.5	330
DF17#(3.0)-120DS-0.5V	26.2	52.4	56	3.8	57.5	330

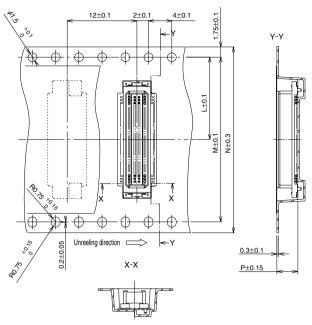
Connector	L	М	N	Р	Q	R
DF17#(4.0)-50DS-0.5V	14.2	28.4	32	4.8	33.5	330
DF17#(4.0)-60DS-0.5V	14.2	28.4	32	4.8	33.5	330
DF17#(4.0)-70DS-0.5V	20.2	40.4	44	4.8	45.5	330
DF17#(4.0)-80DS-0.5V	20.2	40.4	44	4.8	45.5	330

Connector	L	М	N	Р	Q	R
DF17#(3.0)-26DS-0.5V	11.5	-	24	3.3	25.5	330
DF17#(3.0)-30DS-0.5V	11.5	-	24	3.3	25.5	330
DF17#(3.0)-60DS-0.5V	14.2	28.4	32	3.3	33.5	330
DF17#(3.0)-70DS-0.5V	20.2	40.4	44	3.3	45.5	330
DF17#(3.0)-80DS-0.5V	20.2	40.4	44	3.3	45.5	330

Reel Dimensions



■Header



Connector	L	N	Р	Q	R
DF17#(2.0)-20DP-0.5V	11.5	24	4.6	25.5	330
DF17#(2.0)-30DP-0.5V	11.5	24	4.6	25.5	330
DF17#(2.0)-40DP-0.5V	11.5	24	4.6	25.5	330
DF17#(2.5)-26DP-0.5V	11.5	24	5.1	25.5	330
DF17#(2.5)-80DP-0.5V	20.2	44	5.1	45.5	330

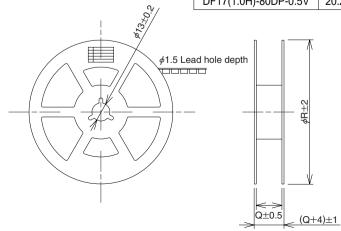
Connector	L	N	Р	Q	R
DF17#(4.0)-20DP-0.5V	11.5	24	6.6	25.5	380
DF17#(4.0)-30DP-0.5V	11.5	24	6.6	25.5	380
DF17#(4.0)-40DP-0.5V	11.5	24	6.6	25.5	380

Connector	L	М	N	Р	Q	R
DF17#(2.0)- 50DP-0.5V	14.2	28.4	32	4.6	33.5	330
DF17#(2.0)- 60DP-0.5V	14.2	28.4	32	4.6	33.5	330
DF17#(2.0)- 70DP-0.5V	20.2	40.4	44	4.6	45.5	330
DF17#(2.0)- 80DP-0.5V	20.2	40.4	44	4.6	45.5	330
DF17#(2.0)-100DP-0.5V	20.2	40.4	44	4.6	45.5	330
DF17#(2.0)-120DP-0.5V	26.2	52.4	56	4.6	57.5	330

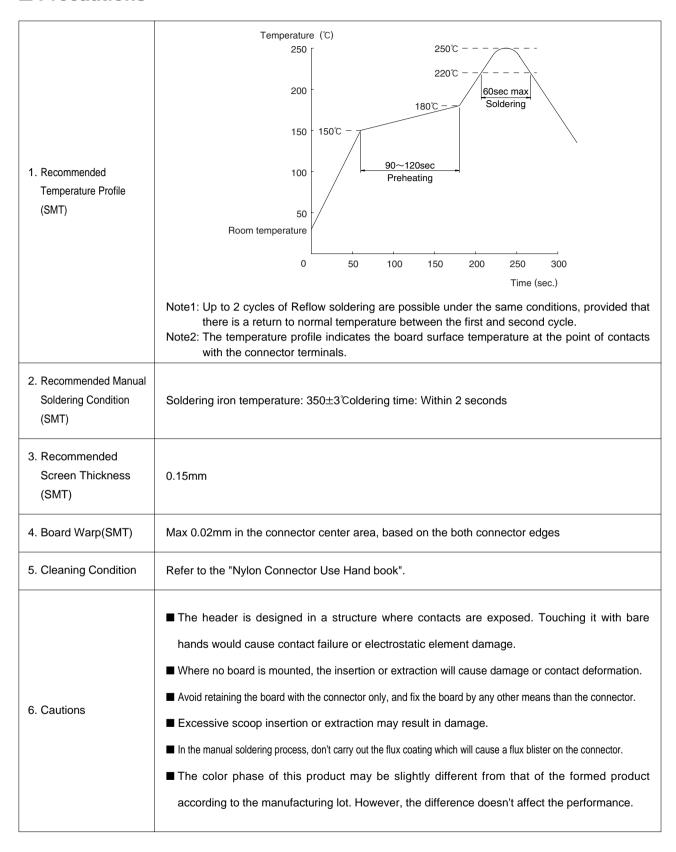
Connector	L	М	N	Р	Q	R
DF17#(4.0)-50DP-0.5V	14.2	28.4	32	6.6	33.5	380
DF17#(4.0)-60DP-0.5V	14.2	28.4	32	6.6	33.5	380
DF17#(4.0)-70DP-0.5V	20.2	40.4	44	6.6	45.5	380
DF17#(4.0)-80DP-0.5V	20.2	40.4	44	6.6	45.5	380

Connector	L	М	N	Р	Q	R
DF17(1.0H)-26DP-0.5V	11.5	-	24	3.6	25.5	330
DF17(1.0H)-30DP-0.5V	11.5	-	24	3.6	25.5	330
DF17(1.0H)-60DP-0.5V	14.2	28.4	32	3.6	33.5	330
DF17(1.0H)-70DP-0.5V	20.2	40.4	44	3.6	45.5	330
DF17(1.0H)-80DP-0.5V	20.2	40.4	44	3.6	45.5	330

Reel Dimensions



Precautions



Mouser Electronics

Authorized Distributor

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 $DF17(3.0)-100DS-0.5V(57) \quad DF17(2.0)-100DP-0.5V(57) \quad DF17(3.0)-120DS-0.5V(57) \quad DF17(2.0)-120DP-0.5V(57)$