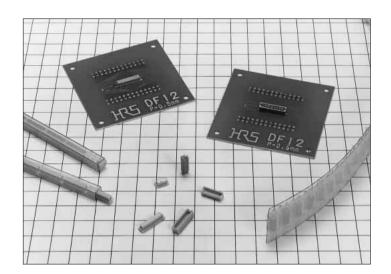
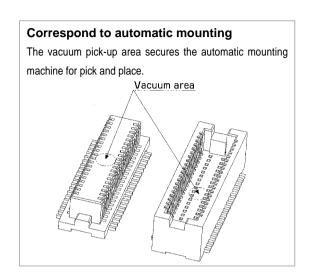


0.5mm Pitch SMT Board to Board Connector

DF12 Series

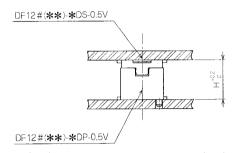




■Features

1. Broad Variations of Stacking Height

In addition to 0.5mm pitch ultra-miniature size connector, the stacking height of 3mm, 3.5mm, 4mm, and 5mm are provided.



Header/Receptacle	DF12#(3.0)-*DS-0.5V	DF12#-*DS-0.5V
	Combination stacking height	Combination stacking height
DF12#(3.0)-*DP-0.5V	3.0	
DF12#(3.5)-*DP-0.5V		3.5
DF12#(4.0)-*DP-0.5V		4.0
DF12#(5.0)-*DP-0.5V		5.0

Note 1: (**) of the product name DF12# (**) indicates the stacking height. Note 2: The stacking height doesn't include the soldering paste thickness.

[Stacking Height Variation]

Stacking	g Height	3.0mm	3.5mm	4.0mm	5.0mm
	10 contacts	0			
	14 contacts	Control Cont			
	20 contacts	0	0	0	0
	30 contacts	0	0	0	0
	32 contacts	0		0	
Number of Contacts	36 contacts	0	0	0	0
	40 contacts	0	0	0	0
	50 contacts	0	0	0	0
	60 contacts	0	0	0	0
	80 contacts	0			

2. Corresponding to Automatic Mounting

The connector has the vacuum pick-up area to enable automatic mounting with the embossed tape packaging.

3. Metal Fitting Available

The product including the metal fitting to prevent solder peeling is provided, considering the mounting on FPC.

■Applications

Mobile phone, LCD(Liquid Crystal Display), Note PC

■Product Specifications

Rating	Current rating	0.3A	Operating Temperature Range	-45 to +125°C (Note 1)	Storage Temperature Range	-10 to +60°C (Note 2)
ixating	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	50m ohms max.	100mA		
4. Vibration	No electrical discontinuity of 1 μ 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: 50m ohms max. Insulation resistance: 500M ohms min	96 hours at temperature of 40±2°C and humidity of 90% to 95%		
6. Temperature Cycle	Contact resistance: 50m ohms max. Insulation resistance: 500M ohms min	(-65°C: 30 minutes 5 to 35°C: 10 minutes 125°C: 30 minutes 5 to 35°C: 10 minutes) 5 cycles		
7. Durability (Mating/un-mating)	Contact resistance: 50m ohms max.	50 cycles		
8. Resistance to Soldering heat	No deformation of components affecting performance.	Reflow: At the recommended temperature profile		
6. Resistance to soldening 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 Contact Phosphor copper	Beige	UL94-V0	
Receptacle/Header	Contact	Phosphor copper	Gold plated	
	Fitting	Brass	Tin plated	

■Ordering Information

●Receptacle <u>DF12</u> # (**) - * <u>DS</u> - <u>0.5</u> V (**)

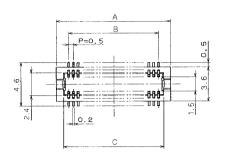
Series Name :	Series Name : DF12			Stacking height	6 Contact Pitch : 0.5mm				
2 Type	2 Type			3.0 : 3.0mm	Contact Style				
		Fitting	Boss	Blank : 3.5 to 5.0mm	V: Straight SMT				
	Blank	0	0	4 Number of Contacts : 10, 14, 20, 30, 32, 36, 40, 50, 60, 80	Packaging Type				
	Α	×	0	(The 32 contacts connector includes the	(81): Embossed tape packaging (A, C type)				
	В	0	×	stacking height 3mm only.)	(86): Embossed tape packaging (Blank, B type)				
	С	×	×	5 Connector Type					
		•		DS : Double-row receptacle					

●Header	DF12	#	(**)	- *	DP	- 0.5	V	<u>(**)</u>
	0	2	3	4	6	6	7	8

ype
row pin header
ssed tape packaging
ssed tape packaging
e)
typ

■ Receptacle Without metal fitting









●Product Height: 3mm Product

Unit: mm

Part Number	CL No.	Number of Contacts	Α	В	С	D	Е	Remarks	RoHS
DF12A (3.0)-10DS-0.5V (81)	537-0626-9-81	10	4.6	2.0	3.1	4.1			
DF12A (3.0)-14DS-0.5V (81)	537-0915-6-81	14	5.6	3.0	4.1	5.1			
DF12A (3.0)-20DS-0.5V (81)	537-0628-4-81	20	7.1	4.5	5.6	6.6		Without metal fitting With boss	
DF12A (3.0)-30DS-0.5V (81)	537-0630-6-81	30	9.6	7.0	8.1	9.1			
DF12A (3.0)-32DS-0.5V (81)	537-0637-5-81	32	10.1	7.5	8.6	9.6	2.2		
DF12A (3.0)-36DS-0.5V (81)	537-0631-9-81	36	11.1	8.5	9.6	10.6			
DF12A (3.0)-40DS-0.5V (81)	537-0632-1-81	40	12.1	9.5	10.6	11.6			
DF12A (3.0)-50DS-0.5V (81)	537-0634-7-81	50	14.6	12.0	13.1	14.1			
DF12A (3.0)-60DS-0.5V (81)	537-0636-2-81	60	17.1	14.5	15.6	16.6			
DF12A (3.0)-80DS-0.5V (81)	537-0638-8-81	80	22.1	19.5	20.6	21.6			YES
DF12C (3.0)-10DS-0.5V (81)	537-0686-0-81	10	4.6	2.0	3.1				ILS
DF12C (3.0)-14DS-0.5V (81)	537-0917-1-81	14	5.6	3.0	4.1				
DF12C (3.0)-20DS-0.5V (81)	537-0688-6-81	20	7.1	4.5	5.6				
DF12C (3.0)-30DS-0.5V (81)	537-0690-8-81	30	9.6	7.0	8.1				
DF12C (3.0)-32DS-0.5V (81)	537-0697-7-81	32	10.1	7.5	8.6		2.2	Med	
DF12C (3.0)-36DS-0.5V (81)	537-0691-0-81	36	11.1	8.5	9.6		2.2	Without metal fitting	
DF12C (3.0)-40DS-0.5V (81)	537-0692-3-81	40	12.1	9.5	10.6			Without boss	
DF12C (3.0)-50DS-0.5V (81)	537-0694-9-81	50	14.6	12.0	13.1				
DF12C (3.0)-60DS-0.5V (81)	537-0696-4-81	60	17.1	14.5	15.6				
DF12C (3.0)-80DS-0.5V (81)	537-0212-6-81	80	22.1	19.5	20.6				

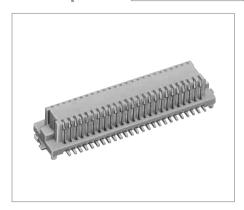
● Product Height: 3.5 to 5mm Product

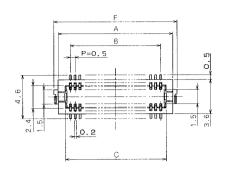
Unit: mm

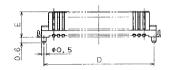
on roduct rieight. 3.3 to 3mm rioduct							Jnit: mm		
Part Number	CL No.	Number of Contacts	Α	В	С	D	Е	Remarks	RoHS
DF12A-20DS-0.5V (81)	537-0078-5-81	20	7.1	4.5	5.6	6.6			
DF12A-30DS-0.5V (81)	537-0080-7-81	30	9.6	7.0	8.1	9.1			
DF12A-32DS-0.5V (81)	537-0087-6-81	32	10.1	7.5	8.6	9.6			
DF12A-36DS-0.5V (81)	537-0081-0-81	36	11.1	8.5	9.6	10.6	2.7	Without metal fitting With boss	
DF12A-40DS-0.5V (81)	537-0082-2-81	40	12.1	9.5	10.6	11.6			
DF12A-50DS-0.5V (81)	537-0084-8-81	50	14.6	12.0	13.1	14.1			YES
DF12A-60DS-0.5V (81)	537-0086-3-81	60	17.1	14.5	15.6	16.6			
DF12C-20DS-0.5V (81)	537-0203-5-81	20	7.1	4.5	5.6				1 1 5
DF12C-30DS-0.5V (81)	537-0205-0-81	30	9.6	7.0	8.1				
DF12C-32DS-0.5V (81)	537-0212-6-81	32	10.1	7.5	8.6				
DF12C-36DS-0.5V (81)	537-0206-3-81	36	11.1	8.5	9.6		2.7	Without metal fitting	
DF12C-40DS-0.5V (81)	537-0207-6-81	40	12.1	9.5	10.6			Without boss	
DF12C-50DS-0.5V (81)	537-0209-1-81	50	14.6	12.0	13.1				
DF12C-60DS-0.5V (81)	537-0211-3-81	60	17.1	14.5	15.6				

Note 1: Please order the embossed tape packaging product per reel. (1000 pcs./reel)

■ Receptacle With metal fitting









● Product Height: 3mm Product

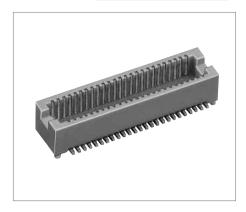
Unit: mm

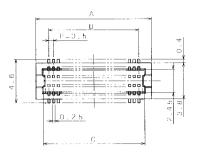
Part Number	CL No.	Number of Contacts	Α	В	С	D	Е	F	Remarks	RoHS
DF12 (3.0)-10DS-0.5V (86)	537-0601-8-86	10	4.6	2.0	3.1	4.1		5.5		
DF12 (3.0)-14DS-0.5V (86)	537-0914-3-86	14	5.6	3.0	4.1	5.1		6.5		
DF12 (3.0)-20DS-0.5V (86)	537-0603-3-86	20	7.1	4.5	5.6	6.6		8.0		
DF12 (3.0)-30DS-0.5V (86)	537-0605-9-86	30	9.6	7.0	8.1	9.1		10.5		
DF12 (3.0)-32DS-0.5V (86)	537-0612-4-86	32	10.1	7.5	8.6	9.6	2.2	11.0	With metal fitting With boss	
DF12 (3.0)-36DS-0.5V (86)	537-0606-1-86	36	11.1	8.5	9.6	10.6	2.2	12.0		
DF12 (3.0)-40DS-0.5V (86)	537-0607-4-86	40	12.1	9.5	10.6	11.6		13.0		
DF12 (3.0)-50DS-0.5V (86)	537-0609-0-86	50	14.6	12.0	13.1	14.1		15.5		
DF12 (3.0)-60DS-0.5V (86)	537-0611-1-86	60	17.1	14.5	15.6	16.6		18.0		
DF12 (3.0)-80DS-0.5V (86)	537-0613-7-86	80	22.1	19.5	20.6	21.6		23.0		YES
DF12B (3.0)-10DS-0.5V (86)	537-0651-6-86	10	4.6	2.0	3.1	4.1		5.5		TES
DF12B (3.0)-14DS-0.5V (86)	537-0916-9-86	14	5.6	3.0	4.1	5.1		6.5		
DF12B (3.0)-20DS-0.5V (86)	537-0653-1-86	20	7.1	4.5	5.6			8.0		
DF12B (3.0)-30DS-0.5V (86)	537-0655-7-86	30	9.6	7.0	8.1			10.5		
DF12B (3.0)-32DS-0.5V (86)	537-0662-2-86	32	10.1	7.5	8.6		2.2	11.0	Med	
DF12B (3.0)-36DS-0.5V (86)	537-0656-0-86	36	11.1	8.5	9.6		2.2	12.0	With metal fitting	
DF12B (3.0)-40DS-0.5V (86)	537-0657-2-86	40	12.1	9.5	10.6			13.0	Without boss	
DF12B (3.0)-50DS-0.5V (86)	537-0659-8-86	50	14.6	12.0	13.1		15.	15.5		
DF12B (3.0)-60DS-0.5V (86)	537-0661-0-86	60	17.1	14.5	15.6	С		18.0		
DF12B (3.0)-80DS-0.5V (86)	537-0663-5-86	80	22.1	19.5	20.6	21.6	23.0	23.0		

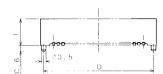
Part Number	CL No.	Number of Contacts	А	В	С	D	Е	F	Remarks	RoHS
DF12-20DS-0.5V (86)	537-0003-6- 86	20	7.1	4.5	5.6	6.6		8.0		
DF12-30DS-0.5V (86)	537-0005-1- 86	30	9.6	7.0	8.1	9.1		10.5		
DF12-32DS-0.5V (86)	537-0012-7- 86	32	10.1	7.5	8.6	9.6		11.0		
DF12-36DS-0.5V (86)	537-0006-4- 86	36	11.1	8.5	9.6	10.6	2.7	12.0	With metal fitting	
DF12-40DS-0.5V (86)	537-0007-7- 86	40	12.1	9.5	10.6	11.6		13.0	With boss	
DF12-50DS-0.5V (86)	537-0009-2- 86	50	14.6	12.0	13.1	14.1		15.5		
DF12-60DS-0.5V (86)	537-0011-4- 86	60	17.1	14.5	15.6	16.6		18.0		YES
DF12B-20DS-0.5V (86)	537-0303-0- 86	20	7.1	4.5	5.6			8.0		150
DF12B-30DS-0.5V (86)	537-0305-5- 86	30	9.6	7.0	8.1			10.5		
DF12B-32DS-0.5V (86)	537-0312-0- 86	32	10.1	7.5	8.6	9.6		11.0		
DF12B-36DS-0.5V (86)	537-0306-8- 86	36	11.1	8.5	9.6		2.7	12.0	With metal fitting	
DF12B-40DS-0.5V (86)	537-0307-0- 86	40	12.1	9.5	10.6			13.0	Without boss	
DF12B-50DS-0.5V (86)	537-0309-6- 86	50	14.6	12.0	13.1			15.5		
DF12B-60DS-0.5V (86)	537-0311-8- 86	60	17.1	14.5	15.6			18.0		

Note: Please order the embossed tape packaging product per reel. (1000 pcs./reel)

■Header Without metal fitting









●Stacking Height: 3.5 to 5mm Product

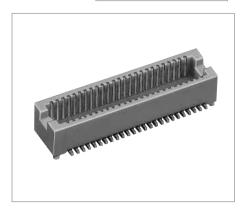
Unit: mm

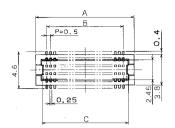
Part Number	CL No.	Number of Contacts	Α	В	С	D	Е	Remarks	RoHS
DF12D (3.0)-10DP-0.5V (81)	537-0791-5- 81	10	4.7	2.0	3.2	4.1			
DF12D (3.0)-14DP-0.5V (81)	537-0920-6- 81	14	5.7	3.0	4.2	5.1			
DF12D (3.0)-20DP-0.5V (81)	537-0793-0- 81	20	7.2	4.5	5.7	6.6		Without metal fitting With boss	
DF12D (3.0)-30DP-0.5V (81)	537-0795-6- 81	30	9.7	7.0	8.2	9.1			
DF12D (3.0)-32DP-0.5V (81)	537-0802-0- 81	32	10.2	7.5	8.7	9.6	2.3		
DF12D (3.0)-36DP-0.5V (81)	537-0796-9-81	36	11.2	8.5	9.7	10.6	2.3		
DF12D (3.0)-40DP-0.5V (81)	537-0797-1- 81	40	12.2	9.5	10.7	11.6			
DF12D (3.0)-50DP-0.5V (81)	537-0799-7- 81	50	14.7	12.0	13.2	14.1			
DF12D (3.0)-60DP-0.5V (81)	537-0801-7- 81	60	17.2	14.5	15.7	16.6			YES
DF12D (3.0)-80DP-0.5V (81)	537-0803-2- 81	80	22.2	19.5	20.7	21.6			
DF12E (3.0)-10DP-0.5V (81)	537-0826-8- 81	10	4.7	2.0	3.2			Without metal fitting Without boss	
DF12E (3.0)-14DP-0.5V (81)	537-0921-9- 81	14	5.7	3.0	4.2				
DF12E (3.0)-20DP-0.5V (81)	537-0828-3- 81	20	7.2	4.5	5.7				
DF12E (3.0)-30DP-0.5V (81)	537-0830-5- 81	30	9.7	7.0	8.2				
DF12E (3.0)-32DP-0.5V (81)	537-0837-4- 81	32	10.2	7.5	8.7		2.2		
DF12E (3.0)-36DP-0.5V (81)	537-0831-8- 81	36	11.2	8.5	9.7		2.3		
DF12E (3.0)-40DP-0.5V (81)	537-0832-0- 81	40	12.2	9.5	10.7				
DF12E (3.0)-50DP-0.5V (81)	537-0834-6- 81	50	14.7	12.0	13.2				
DF12E (3.0)-60DP-0.5V (81)	537-0836-1- 81	60	17.2	14.5	15.7				
DF12E (3.0)-80DP-0.5V (81)	537-0838-7- 81	80	22.2	19.5	20.7				

Note: Order the emboss package product per reel. (1000 pcs./reel)

HS A197

■Header Without metal fitting









●Stacking Height: 3.5 to 5mm Product

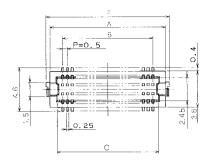
Unit: mm

Part Number	CL No.	Number of Contacts	Α	В	С	D	Е	Remarks	RoHS
DF12D (3.5)-20DP-0.5V (81)	537-0428-5- 81	20	7.2	4.5	5.7	6.6			
DF12D (3.5)-30DP-0.5V (81)	537-0430-7- 81	30	9.7	7.0	8.2	9.1			
DF12D (3.5)-36DP-0.5V (81)	537-0431-0-81	36	11.2	8.5	9.7	10.6	2.8		
DF12D (3.5)-40DP-0.5V (81)	537-0432-2- 81	40	12.2	9.5	10.7	11.6	2.0		
DF12D (3.5)-50DP-0.5V (81)	537-0434-8- 81	50	14.7	12.0	13.2	14.1			
DF12D (3.5)-60DP-0.5V (81)	537-0436-3-81	60	17.2	14.5	15.7	16.6			
DF12D (4.0)-20DP-0.5V (81)	537-0453-2- 81	20	7.2	4.5	5.7	6.6			
DF12D (4.0)-30DP-0.5V (81)	537-0455-8- 81	30	9.7	7.0	8.2	9.1			- YES
DF12D (4.0)-36DP-0.5V (81)	537-0456-0- 81	36	11.2	8.5	9.7	10.6	3.3	Without metal fitting	
DF12D (4.0)-40DP-0.5V (81)	537-0457-3- 81	40	12.2	9.5	10.7	11.6	0.0	With boss	
DF12D (4.0)-50DP-0.5V (81)	537-0459-9- 81	50	14.7	12.0	13.2	14.1			
DF12D (4.0)-60DP-0.5V (81)	537-0461-0- 81	60	17.2	14.5	15.7	16.6			
DF12D (5.0)-20DP-0.5V (81)	537-0478-3-81	20	7.2	4.5	5.7	6.6			
DF12D (5.0)-30DP-0.5V (81)	537-0480-5- 81	30	9.7	7.0	8.2	9.1			
DF12D (5.0)-36DP-0.5V (81)	537-0481-8- 81	36	11.2	8.5	9.7	10.6	4.3		
DF12D (5.0)-40DP-0.5V (81)	537-0482-0- 81	40	12.2	9.5	10.7	11.6	4.5		
DF12D (5.0)-50DP-0.5V (81)	537-0484-6- 81	50	14.7	12.0	13.2	14.1			
DF12D (5.0)-60DP-0.5V (81)	537-0486-1- 81	60	17.2	14.5	15.7	16.6			
DF12E (3.5)-20DP-0.5V (81)	537-0528-0- 81	20	7.2	4.5	5.7				
DF12E (3.5)-30DP-0.5V (81)	537-0530-1- 81	30	9.7	7.0	8.2				
DF12E (3.5)-36DP-0.5V (81)	537-0531-4- 81	36	11.2	8.5	9.7		2.8		
DF12E (3.5)-40DP-0.5V (81)	537-0532-7- 81	40	12.2	9.5	10.7		2.0		
DF12E (3.5)-50DP-0.5V (81)	537-0534-2- 81	50	14.7	12.0	13.2				
DF12E (3.5)-60DP-0.5V (81)	537-0536-8- 81	60	17.2	14.5	15.7				
DF12E (4.0)-20DP-0.5V (81)	537-0553-7- 81	20	7.2	4.5	5.7				
DF12E (4.0)-30DP-0.5V (81)	537-0555-2- 81	30	9.7	7.0	8.2				
DF12E (4.0)-36DP-0.5V (81)	537-0556-5- 81	36	11.2	8.5	9.7		3.3	Without metal fitting	
DF12E (4.0)-40DP-0.5V (81)	537-0557-8- 81	40	12.2	9.5	10.7		0.0	Without boss	
DF12E (4.0)-50DP-0.5V (81)	537-0559-3- 81	50	14.7	12.0	13.2				
DF12E (4.0)-60DP-0.5V (81)	537-0561-5- 81	60	17.2	14.5	15.7		1		
DF12E (5.0)-20DP-0.5V (81)	537-0578-8- 81	20	7.2	4.5	5.7				
DF12E (5.0)-30DP-0.5V (81)	537-0580-0-81	30	9.7	7.0	8.2		4.3		
DF12E (5.0)-36DP-0.5V (81)	537-0581-2- 81	36	11.2	8.5	9.7				
DF12E (5.0)-40DP-0.5V (81)	537-0582-5- 81	40	12.2	9.5	10.7				
DF12E (5.0)-50DP-0.5V (81)	537-0584-0- 81	50	14.7	12.0	13.2				
DF12E (5.0)-60DP-0.5V (81)	537-0586-6- 81	60	17.2	14.5	15.7				

Note: Plaese order the embossed tape packaging product per reel. (1000 pcs./reel)

■Header With metal fitting









●Stacking Height: 3mm Product

Unit: mm

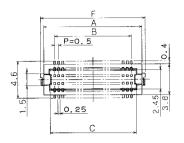
Part Number	CL No.	Number of Contacts	Α	В	С	D	Е	F	Remarks	RoHS
DF12 (3.0)-10DP-0.5V (86)	537-0721-0- 86	10	4.7	2.0	3.2	4.1	5.5	5.5		
DF12 (3.0)-14DP-0.5V (86)	537-0918-4- 86	14	5.7	3.0	4.2	5.1		6.5	With metal fitting With boss	
DF12 (3.0)-20DP-0.5V (86)	537-0723-5- 86	20	7.2	4.5	5.7	6.6		8.0		
DF12 (3.0)-30DP-0.5V (86)	537-0725-0- 86	30	9.7	7.0	8.2	9.1		10.5		
DF12 (3.0)-32DP-0.5V (86)	537-0732-6- 86	32	10.2	7.5	8.7	9.6		11.0		
DF12 (3.0)-36DP-0.5V (86)	537-0726-3- 86	36	11.2	8.5	9.7	10.6	2.3	12.0		
DF12 (3.0)-40DP-0.5V (86)	537-0727-6- 86	40	12.2	9.5	10.7	11.6		13.0		
DF12 (3.0)-50DP-0.5V (86)	537-0729-1- 86	50	14.7	12.0	13.2	14.1		15.5		
DF12 (3.0)-60DP-0.5V (86)	537-0731-3- 86	60	17.2	14.5	15.7	16.6		18.0		
DF12 (3.0)-80DP-0.5V (86)	537-0733-9- 86	80	22.2	19.5	20.7	21.6		23.0		VEC
DF12 (3.0)-10DP-0.5V (86)	537-0756-4- 86	10	4.7	2.0	3.2			5.5		YES
DF12 (3.0)-14DP-0.5V (86)	537-0919-7- 86	14	5.7	3.0	4.2			6.5		
DF12B (3.0)-20DP-0.5V (86)	537-0758-0- 86	20	7.2	4.5	5.7			8.0		
DF12B (3.0)-30DP-0.5V (86)	537-0760-1- 86	30	9.7	7.0	8.2			10.5		
DF12B (3.0)-32DP-0.5V (86)	537-0767-0- 86	32	10.2	7.5	8.7		2.2	11.0	With metal fitting Without boss	
DF12B (3.0)-36DP-0.5V (86)	537-0761-4- 86	36	11.2	8.5	9.7		2.3	12.0		
DF12B (3.0)-40DP-0.5V (86)	537-0762-7- 86	40	12.2	9.5	10.7			13.0		
DF12B (3.0)-50DP-0.5V (86)	537-0764-2- 86	50	14.7	12.0	13.2			15.5		
DF12B (3.0)-60DP-0.5V (86)	537-0766-8- 86	60	17.2	14.5	15.7			18.0	1	
DF12B (3.0)-80DP-0.5V (86)	537-0768-3- 86	80	22.2	19.5	20.7			23.0		

Note: Please order the embossed tape packaging product per reel. (1000 pcs./reel)

HS A199

■Header With metal fitting









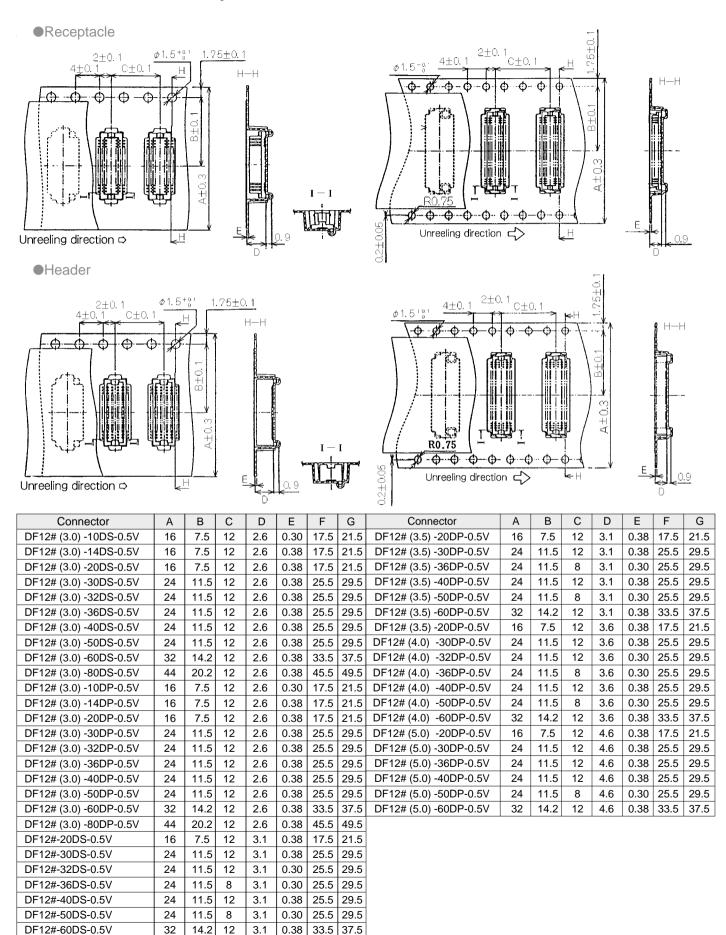
●Stacking Height: 3.5 to 5mm Product

Unit: mm

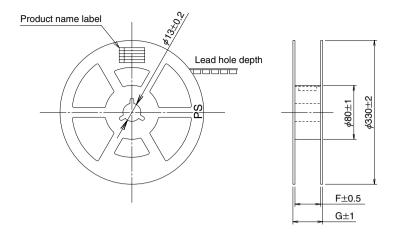
Part Number	CL No.	Number of Contacts	Α	В	С	D	Е	F	Remarks	RoHS
DF12 (3.5)-20DP-0.5V (86)	537-0028-7- 86	20	7.2	4.5	5.7	6.6	2.8	8.0		
DF12 (3.5)-30DP-0.5V (86)	537-0030-9-86	30	9.7	7.0	8.2	9.1		10.5		
DF12 (3.5)-36DP-0.5V (86)	537-0031-1-86	36	11.2	8.5	9.7	10.6		12.0		
DF12 (3.5)-40DP-0.5V (86)	537-0032-4- 86	40	12.2	9.5	10.7	11.6	2.0	13.0		
DF12 (3.5)-50DP-0.5V (86)	537-0034-0-86	50	14.7	12.0	13.2	14.1		15.5		
DF12 (3.5)-60DP-0.5V (86)	537-0036-5- 86	60	17.2	14.5	15.7	16.6		18.0		
DF12 (4.0)-20DP-0.5V (86)	537-0053-4- 86	20	7.2	4.5	5.7	6.6		8.0		
DF12 (4.0)-30DP-0.5V (86)	537-0055-0-86	30	9.7	7.0	8.2	9.1		10.5		
DF12 (4.0)-32DP-0.5V (86)	537-0926-2-86	32	10.2	7.5	8.7	9.6		11.0		
DF12 (4.0)-36DP-0.5V (86)	537-0056-2-86	36	11.2	8.5	9.7	10.6	3.3	12.0	With metal fitting	
DF12 (4.0)-40DP-0.5V (86)	537-0057-5-86	40	12.2	9.5	10.7	11.6		13.0	With boss	
DF12 (4.0)-50DP-0.5V (86)	537-0059-0-86	50	14.7	12.0	13.2	14.1		15.5	-	· YES
DF12 (4.0)-60DP-0.5V (86)	537-0061-2-86	60	17.2	14.5	15.7	16.6		18.0		
DF12 (5.0)-20DP-0.5V (86)	537-0153-9-86	20	7.2	4.5	5.7	6.6		8.0		
DF12 (5.0)-30DP-0.5V (86)	537-0155-4- 86	30	9.7	7.0	8.2	9.1		10.5		
DF12 (5.0)-36DP-0.5V (86)	537-0156-7- 86	36	11.2	8.5	9.7	10.6	4.3	12.0		
DF12 (5.0)-40DP-0.5V (86)	537-0157-0-86	40	12.2	9.5	10.7	11.6		13.0		
DF12 (5.0)-50DP-0.5V (86)	537-0159-5- 86	50	14.7	12.0	13.2	14.1		15.5		
DF12 (5.0)-60DP-0.5V (86)	537-0161-7- 86	60	17.2	14.5	15.7	16.6		18.0		
DF12B (3.5)-20DP-0.5V (86)	537-0328-0-86	20	7.2	4.5	5.7			8.0		
DF12B (3.5)-30DP-0.5V (86)	537-0330-2- 86	30	9.7	7.0	8.2			10.5		
DF12B (3.5)-36DP-0.5V (86)	537-0331-5- 86	36	11.2	8.5	9.7		2.8	12.0		
DF12B (3.5)-40DP-0.5V (86)	537-0332-8- 86	40	12.2	9.5	10.7			13.0		
DF12B (3.5)-50DP-0.5V (86)	537-0334-3- 86	50	14.7	12.0	13.2			15.5		
DF12B (3.5)-60DP-0.5V (86)	537-0336-9- 86	60	17.2	14.5	15.7			18.0		
DF12B (4.0)-20DP-0.5V (86)	537-0353-8- 86	20	7.2	4.5	5.7			8.0		
DF12B (4.0)-30DP-0.5V (86)	537-0355-3- 86	30	9.7	7.0	8.2			10.5	With metal fitting	
DF12B (4.0)-32DP-0.5V (86)	537-0927-5-86	32	10.2	7.5	8.7			11.0		
DF12B (4.0)-36DP-0.5V (86)	537-0356-6- 86	36	11.2	8.5	9.7		3.3	12.0		
DF12B (4.0)-40DP-0.5V (86)	537-0357-9- 86	40	12.2	9.5	10.7			13.0	Without boss	
DF12B (4.0)-50DP-0.5V (86)	537-0359-4- 86	50	14.7	12.0	13.2		4.3	15.5		
DF12B (4.0)-60DP-0.5V (86)	537-0361-6- 86	60	17.2	14.5	15.7			18.0		
DF12B (5.0)-20DP-0.5V (86)	537-0378-9- 86	20	7.2	4.5	5.7			8.0		
DF12B (5.0)-30DP-0.5V (86)	537-0380-0- 86	30	9.7	7.0	8.2			10.5		
DF12B (5.0)-36DP-0.5V (86)	537-0381-3- 86	36	11.2	8.5	9.7			12.0		
DF12B (5.0)-40DP-0.5V (86)	537-0382-6- 86	40	12.2	9.5	10.7			13.0		
DF12B (5.0)-50DP-0.5V (86)	537-0384-1- 86	50	14.7	12.0	13.2			15.5		
DF12B (5.0)-60DP-0.5V (86)	537-0386-7- 86	60	17.2	14.5	15.7			18.0		

Note: Please order the embossed tape packaging product per reel. (1000 pcs./reel)

● Embossed Carrier tape Dimensions



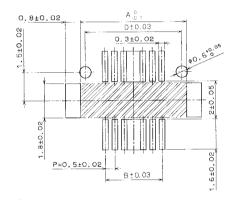
Reel Dimensions



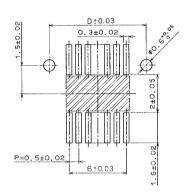
Refer to former page for F, G dimensions.

♠ Recommended PCB mounting pattern

■DF12 with metal fitting



■DF12 without metal fitting



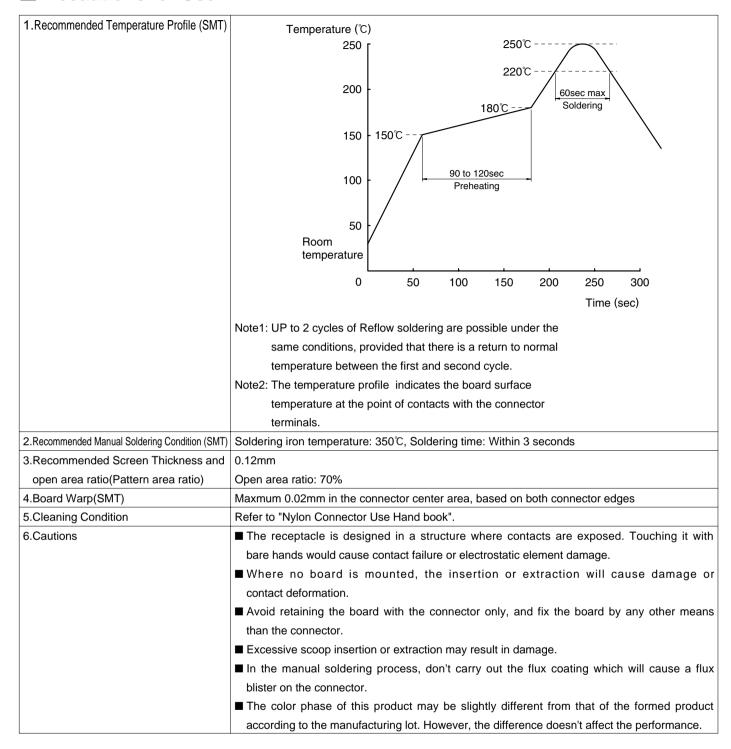
Note 1: Refer to A195 to A200 for sides A, B, and D.

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

Note 3: If the pattern is included in the shaded area, and not treated with resist, it could touch the connector contact.

A202 **HS**

◆ Precautions for Use



Mouser Electronics

Authorized Distributor

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Hirose Electric:

DF12-20DS-0.5V(48) DF12-20DS-0.5V(86) DF12-30DS-0.5V(86) DF12-36DS-0.5V(86) DF12-40DS-0.5V(86) DF12-50DS-0.5V(86) DF12-60DS-0.5V(86) DF12-32DS-0.5V(86) DF12(3.5)-20DP-0.5V(86) DF12(3.5)-30DP-0.5V(86) DF12(3.5)-36DP-0.5V(86) DF12(3.5)-40DP-0.5V(86) DF12(3.5)-50DP-0.5V(86) DF12(3.5)-60DP-0.5V(86) DF12(4.0)-20DP-0.5V(86) DF12(4.0)-30DP-0.5V(86) DF12(4.0)-36DP-0.5V(86) DF12(4.0)-40DP-0.5V(86) DF12(4.0)-50DP-0.5V(86) DF12(4.0)-60DP-0.5V(86) DF12A-20DS-0.5V(81) DF12A-30DS-0.5V(80) DF12A-30DS-0.5V(81) DF12A-36DS-0.5V(81) DF12A-40DS-0.5V(81) DF12A-50DS-0.5V(80) DF12A-50DS-0.5V(81) DF12A-60DS-0.5V(81) DF12A-32DS-0.5V(80) DF12A-32DS-0.5V(81) DF12(4.5)-40DP-0.5V(86) DF12(5.0)-20DP-0.5V(86) DF12(5.0)-30DP-0.5V(86) DF12(5.0)-36DP-0.5V(86) DF12(5.0)-40DP-0.5V(86) DF12(5.0)-50DP-0.5V(86) DF12(5.0)-60DP-0.5V(86) DF12C-20DS-0.5V(81) DF12C-30DS-0.5V(81) DF12C-36DS-0.5V(81) DF12C-40DS-0.5V(81) DF12C-50DS-0.5V(80) DF12C-50DS-0.5V(81) DF12C-60DS-0.5V(80) DF12C-60DS-0.5V(81) DF12C-32DS-0.5V(81) DF12B-20DS-0.5V(86) DF12B-30DS-0.5V(86) DF12B-36DS-0.5V(86) DF12B-40DS-0.5V(86) DF12B-50DS-0.5V(86) DF12B-60DS-0.5V(86) DF12B-32DS-0.5V(86) DF12B(3.5)-20DP-0.5V(86) DF12B(3.5)-30DP-0.5V(86) DF12B(3.5)-36DP-0.5V(86) DF12B(3.5)-40DP-0.5V(80) DF12B(3.5)-40DP-0.5V(86) DF12B(3.5)-50DP-0.5V(86) DF12B(3.5)-60DP-0.5V(86) DF12B(4.0)-20DP-0.5V(86) DF12B(4.0)-30DP-0.5V(86) DF12B(4.0)-36DP-0.5V(86) DF12B(4.0)-40DP-0.5V(86) DF12B(4.0)-50DP-0.5V(86) DF12B(4.0)-60DP-0.5V(86) DF12B(5.0)-20DP-0.5V(86) DF12B(5.0)-30DP-0.5V(86) DF12B(5.0)-36DP-0.5V(86) DF12B(5.0)-40DP-0.5V(86) DF12B(5.0)-50DP-0.5V(86) DF12B(5.0)-60DP-0.5V(86) DF12D(3.5)-20DP-0.5V(81) DF12D(3.5)-30DP-0.5V(80) DF12D(3.5)-30DP-0.5V(81) DF12D(3.5)-36DP-0.5V(81) DF12D(3.5)-40DP-0.5V(81) DF12D(3.5)-50DP-0.5V(81) DF12D(3.5)-60DP-0.5V(81) DF12D(4.0)-20DP-0.5V(80) DF12D(4.0)-20DP-0.5V(81) DF12D(4.0)-30DP-0.5V(81) DF12D(4.0)-36DP-0.5V(81) DF12D(4.0)-40DP-0.5V(81) DF12D(4.0)-50DP-0.5V(81) DF12D(4.0)-60DP-0.5V(81) DF12D(5.0)-20DP-0.5V(81) DF12D(5.0)-30DP-0.5V(80) DF12D(5.0)-30DP-0.5V(81) DF12D(5.0)-36DP-0.5V(81) DF12D(5.0)-40DP-0.5V(81) DF12D(5.0)-50DP-0.5V(81) DF12D(5.0)-60DP-0.5V(81) DF12E(3.5)-20DP-0.5V(81) DF12E(3.5)-30DP-0.5V(81) DF12E(3.5)-36DP-0.5V(81) DF12E(3.5)-40DP-0.5V(80) DF12E(3.5)-40DP-0.5V(81) DF12E(3.5)-50DP-0.5V(81) DF12E(3.5)-60DP-0.5V(80)