

0.8 mm Free Height (FH) Connector System

Now Offering 17 mm Receptacle Which Expands Stacking Height Options up to 20 mm

DESCRIPTION

The popular 0.8mm FH connector system has expanded its portfolio to include a 17 mm receptacle which is fully mateable with all plugs offered in the product portfolio. Stacking height options now range from 5 through 20 mm (in increments of 1 mm). The 0.8 mm high density centerline spacing allows for more than 50% in board space savings compared to conventional 1.27 mm centerline connectors. In addition, right angle plugs are available which mate to standard receptacles.

APPLICATIONS

- Parallel board stacking applications in high end computer, telecommunications, industrial, and mil/aero industries
- Test cards and card extenders
- Standard vertical receptacles

KEY FEATURES & BENEFITS

- Available sizes from 40 to 200 positions
- Board stacking heights available from 5 to 20 mm, in increments of 1 mm
- Tube, tube with pickup cap, and tape and reel packaging options
- Polarized locating posts
- 8 μ " Gold and 30 μ " Gold plating options
- RoHS compliant part numbers now available
- Optional solder peg (holddown)
- Right angle plugs in 60 and 80 positions

RATINGS

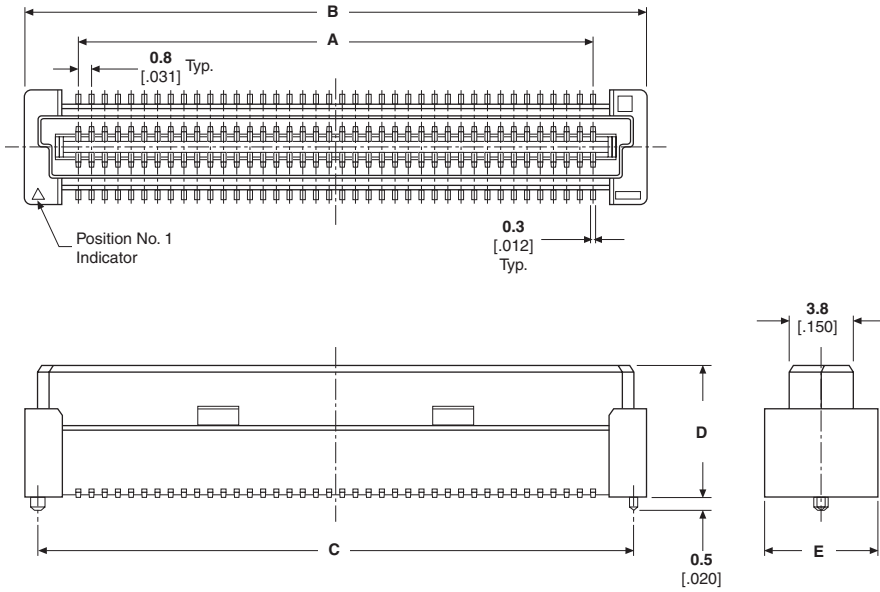
- Voltage Rating: 100 VAC
- Current Rating: 0.5 ampere
- Contact Resistance: 30 milliohms max (initial)
- Dielectric Withstanding Voltage: 500 VAC
- Operating Temperature: -40°C to +125°C (including thermal T-Rise)

MATERIALS

- Housing: High temperature thermoplastic, 94V-0 rated
- Contacts: Brass
- Platings: Gold Interface, Nickel underplate

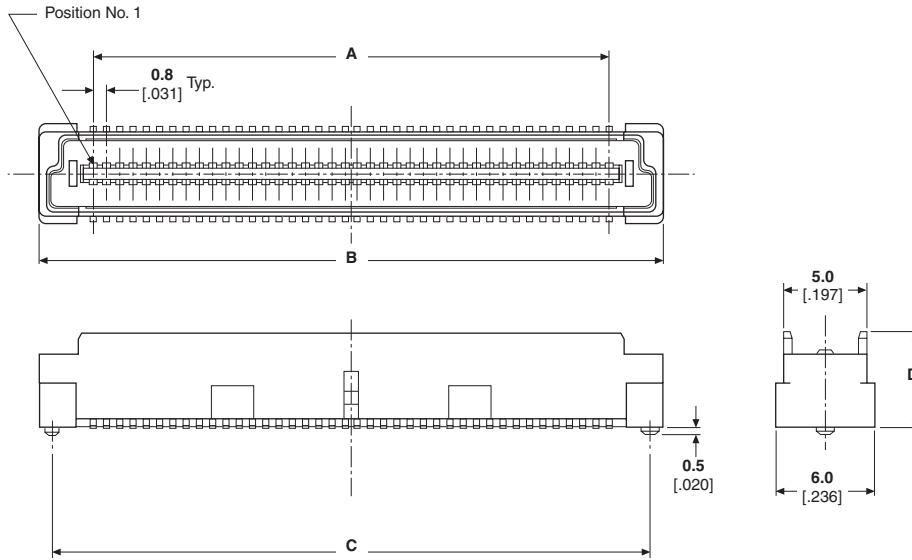
PRODUCT DIMENSIONS

Receptacle



No. of Positions	Dimensions			
	A	B	C	
40	15.20 .598	21.80 .858	20.20 .795	
60	23.20 .913	29.80 1.173	28.20 1.110	
80	31.20 1.228	37.80 1.488	36.20 1.425	
100	39.20 1.543	45.80 1.803	44.20 1.740	
120	47.20 1.858	53.80 2.118	52.20 2.055	
140	55.20 2.173	61.80 2.433	60.20 2.370	
160	63.20 2.488	69.80 2.748	68.20 2.685	
180	71.20 2.803	77.80 3.063	76.20 3.000	
200	79.20 3.118	85.80 3.378	84.20 3.315	
Height	5H	9H	13H	17H
Dim. D	3.75 .148	7.75 .305	11.75 .483	15.75 .620
Dim. E	6.00 .236	6.80 .268	6.80 .268	6.80 .268

Plug



No. of Positions	Dimensions			
	A	B	C	
40	15.20 .598	21.80 .858	20.20 .795	
60	23.20 .913	29.80 1.173	28.20 1.110	
80	31.20 1.228	37.80 1.488	36.20 1.425	
100	39.20 1.543	45.80 1.803	44.20 1.740	
120	47.20 1.858	53.80 2.118	52.20 2.055	
140	55.20 2.173	61.80 2.433	60.20 2.370	
160	63.20 2.488	69.80 2.748	68.20 2.685	
180	71.20 2.803	77.80 3.063	76.20 3.000	
200	79.20 3.118	85.80 3.378	84.20 3.315	
Height	5H	6H	7H	8H
Dim. D	4.60 .181	5.60 .220	6.60 .260	7.60 .300

STACKING HEIGHT MATRIX

Stacking Height mm		Plug Height			
		5.00	6.00	7.00	8.00
Receptacle Height	5.00	5.00	6.00	7.00	8.00
	9.00	9.00	10.00	11.00	12.00
	13.00	13.00	14.00	15.00	16.00
	17.00	17.00	18.00	19.00	20.00

Stacking Height = [(Receptacle Height + Plug Height) - 5]

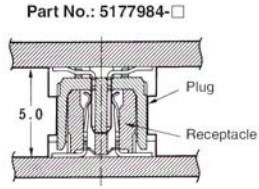
Gender	Height	Plating Au Thickness	Package Type	Pickup Cap	40 Pos.	60 Pos.	80 Pos.	100 Pos.	120 Pos.	140 Pos.	160 Pos.	180 Pos.	200 Pos.	
Rcpt.	5H	8μ"	Tube	No	5177983-1	5177983-2	5177983-3	5177983-4	5177983-5	5177983-6	5177983-8	5177983-9	1-5177983-0	
			Tube	Yes	5179229-1	5179229-2	5179229-3	5179229-4	5179229-5	5179229-6	5179229-8	5179229-9	1-5179229-0	
			Tape and Reel	Yes	5177985-1	5177985-2	5177985-3	5177985-4	5177985-5	5177985-6	5177985-8	—	—	
		30μ"	Tube	No	6123000-1	6123000-2	6123000-3	6123000-4	6123000-5	6123000-6	6123000-8	6123000-9	1-6123000-0	
			Tape and Reel	Yes	5353999-1	5353999-2	5353999-3	5353999-4	5353999-5	5353999-6	5353999-8	5353999-9	—	—
			Tube	No	5-5179009-1	5-5179009-2	5-5179009-3	5-5179009-4	5-5179009-5	5-5179009-6	5-5179009-8	5-5179009-9	6-5179009-0	
	9H	8μ"	Tube	Yes	—	5-5179232-2	5-5179232-3	5-5179232-4	5-5179232-5	5-5179232-6	5-5179232-8	5-5179232-9	6-5179232-0	
			Tape and Reel	Yes	5-5179180-1	5-5179180-2	5-5179180-3	5-5179180-4	5-5179180-5	5-5179180-6	—	—	—	
			Tube	No	5084613-1	5084613-2	5084613-3	5084613-4	5084613-5	5084613-6	5084613-8	5084613-9	1-5084613-0	
		30μ"	Tape and Reel	Yes	7-5179180-1	7-5179180-2	7-5179180-3	7-5179180-4	7-5179180-5	7-5179180-6	—	—	—	
			Tube	No	5-5179010-1	5-5179010-2	5-5179010-3	5-5179010-4	5-5179010-5	5-5179010-6	5-5179010-8	5-5179010-9	6-5179010-0	
			Tube	Yes	5-5179233-1	5-5179233-2	5-5179233-3	5-5179233-4	5-5179233-5	5-5179233-6	5-5179233-8	5-5179233-9	6-5179233-0	
13H	8μ"	Tape and Reel	Yes	5084616-1	5084616-2	5084616-3	5084616-4	5084616-5	5084616-6	5084616-8	—	—		
		Tube	No	5-6123212-1	5-6123212-2	5-6123212-3	5-6123212-4	5-6123212-5	5-6123212-6	5-6123212-8	5-6123212-9	6-6123212-0		
		Tube	Yes	—	—	—	—	—	—	—	—	7-6123212-0		
	30μ"	Tape and Reel	Yes	5084618-1	5084618-2	5084618-3	5084618-4	5084618-5	5084618-6	5084618-8	—	—		
		Tube	No	5-1735480-1	5-1735480-2	5-1735480-3	5-1735480-4	5-1735480-5	5-1735480-6	5-1735480-8	5-1735480-9	6-1735480-0		
		Tube	Yes	1735481-1	1735481-2	1735481-3	1735481-4	1735481-5	1735481-6	1735481-8	1735481-9	1-1735481-0		
17H	8μ"	Tape and Reel	Yes	1735482-1	1735482-2	1735482-3	1735482-4	1735482-5	1735482-6	1735482-8	—	—		
		Tube	No	7-1735480-1	7-1735480-2	7-1735480-3	7-1735480-4	7-1735480-5	7-1735480-6	7-1735480-8	7-1735480-9	8-1735480-0		
		Tube	Yes	2-1735481-1	2-1735481-2	2-1735481-3	2-1735481-4	2-1735481-5	2-1735481-6	2-1735481-8	2-1735481-9	3-1735481-0		
	30μ"	Tape and Reel	Yes	2-1735482-1	2-1735482-2	2-1735482-3	2-1735482-4	2-1735482-5	2-1735482-6	2-1735482-8	—	—		
		Tube	No	5177984-1	5177984-2	5177984-3	5177984-4	5177984-5	5177984-6	5177984-8	5177984-9	1-5177984-0		
		Tube	Yes	5179230-1	5179230-2	5179230-3	5179230-4	5179230-5	5179230-6	5179230-8	5179230-9	1-5179230-0		
Plug	5H	8μ"	Tape and Reel	Yes	5177986-1	5177986-2	5177986-3	5177986-4	5177986-5	5177986-6	5177986-8	—	—	
			Tube	No	5084614-1	5084614-2	5084614-3	5084614-4	5084614-5	5084614-6	5084614-8	5084614-9	1-5084614-0	
			Tape and Reel	Yes	5-5177986-1	5-5177986-2	5-5177986-3	5-5177986-4	5-5177986-5	5-5177986-6	5-5177986-8	—	—	
		30μ"	Tube	No	5179029-1	5179029-2	5179029-3	5179029-4	5179029-5	5179029-6	5179029-8	5179029-9	1-5179029-0	
			Tape and Reel	Yes	2-5179230-1	2-5179230-2	2-5179230-3	2-5179230-4	2-5179230-5	2-5179230-6	2-5179230-8	2-5179230-9	3-5179230-0	
			Tube	Yes	1-5177986-1	1-5177986-2	1-5177986-3	1-5177986-4	1-5177986-5	1-5177986-6	—	—	—	
	6H	8μ"	Tube	No	5084615-1	5084615-2	5084615-3	5084615-4	5084615-5	5084615-6	5084615-8	5084615-9	1-5084615-0	
			Tube	Yes	—	—	—	—	—	—	1-5084615-8	1-5084615-9	2-5084615-0	
			Tape and Reel	Yes	6-5177986-1	6-5177986-2	6-5177986-3	6-5177986-4	6-5177986-5	6-5177986-6	—	—	—	
		30μ"	Tube	No	5179030-1	5179030-2	5179030-3	5179030-4	5179030-5	5179030-6	5179030-8	5179030-9	1-5179030-0	
			Tape and Reel	Yes	4-5179230-1	4-5179230-2	4-5179230-3	4-5179230-4	4-5179230-5	4-5179230-6	4-5179230-8	4-5179230-9	5-5179230-0	
			Tube	Yes	2-5177986-1	2-5177986-2	2-5177986-3	2-5177986-4	2-5177986-5	2-5177986-6	—	—	—	
7H	8μ"	Tube	No	1-5179030-1	1-5179030-2	1-5179030-3	1-5179030-4	1-5179030-5	1-5179030-6	1-5179030-8	1-5179030-9	2-5179030-0		
		Tube	Yes	2-5179030-1	2-5179030-2	2-5179030-3	2-5179030-4	2-5179030-5	2-5179030-6	2-5179030-8	2-5179030-9	3-5179030-0		
		Tape and Reel	Yes	7-5177986-1	7-5177986-2	7-5177986-3	7-5177986-4	7-5177986-5	7-5177986-6	—	—	—		
	30μ"	Tube	No	5179031-1	5179031-2	5179031-3	5179031-4	5179031-5	5179031-6	5179031-8	5179031-9	1-5179031-0		
		Tape and Reel	Yes	6-5179230-1	6-5179230-2	6-5179230-3	6-5179230-4	6-5179230-5	6-5179230-6	6-5179230-8	6-5179230-9	7-5179230-0		
		Tube	Yes	3-5177986-1	3-5177986-2	3-5177986-3	3-5177986-4	3-5177986-5	3-5177986-6	—	—	—		
8H	8μ"	Tube	No	6123002-1	6123002-2	6123002-3	6123002-4	6123002-5	6123002-6	6123002-8	6123002-9	1-6123002-0		
		Tape and Reel	Yes	6123001-1	6123001-2	6123001-3	6123001-4	6123001-5	6123001-6	6123001-8	—	—		
		Tube	No	—	316229-2	316229-3	—	—	—	—	—	—		
	30μ"	Tube	No	—	—	—	—	—	—	—	—	—	—	
		Tape and Reel	Yes	—	—	—	—	—	—	—	—	—	—	
		Tube	No	—	—	—	—	—	—	—	—	—	—	
R/A	8μ"	Tube	No	—	—	—	—	—	—	—	—	—		

Stack Height = [(Rcpt. Height + Plug Height) - 5]

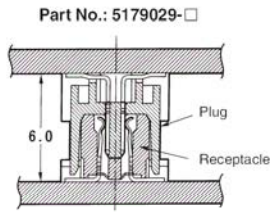
example: [(13H Rcpt. + 6H Plug) - 5] = [(13 + 6) - 5] = 14mm stack height

Note: Part Numbers are RoHS compliant.

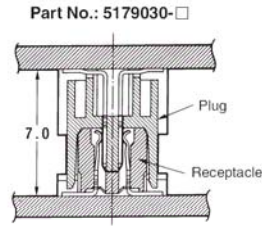
BOARD-TO-BOARD STACKING HEIGHTS (BY PLUG/RECEPTACLE COMBINATIONS)



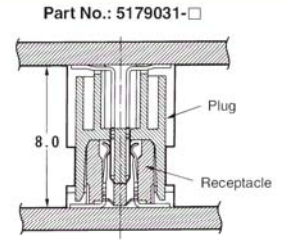
Part No.: 5177984-□
5 [.197] Stacking Height



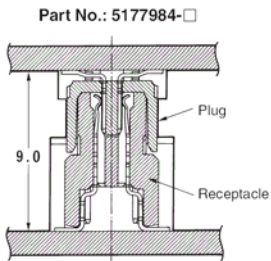
Part No.: 5179029-□
6 [.236] Stacking Height



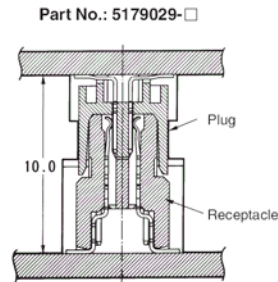
Part No.: 5179030-□
7 [.276] Stacking Height



Part No.: 5179031-□
8 [.315] Stacking Height

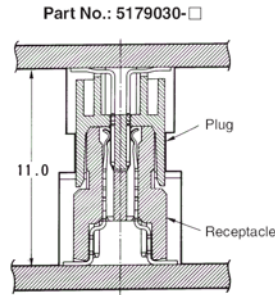


Part No.: 5177984-□
9 [.354] Stacking Height



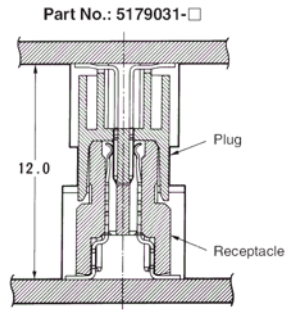
Part No.: 5179029-□

Part No.: 5-5179009-□
10 [.394] Stacking Height



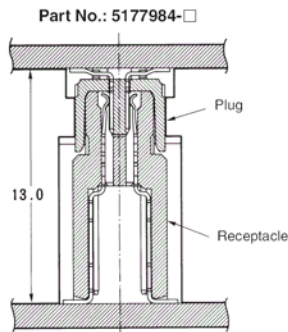
Part No.: 5179030-□

Part No.: 5-5179009-□
11 [.433] Stacking Height

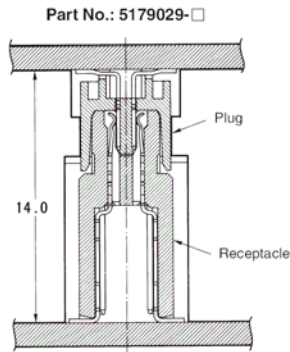


Part No.: 5179031-□

Part No.: 5-5179009-□
12 [.472] Stacking Height

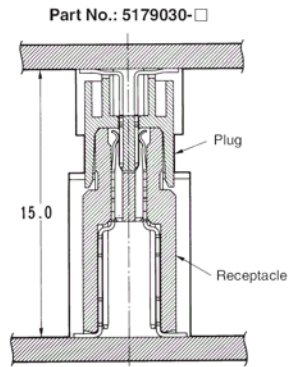


Part No.: 5177984-□
13 [.512] Stacking Height



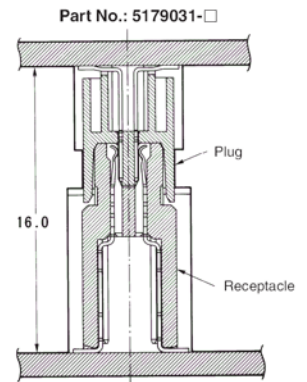
Part No.: 5179029-□

Part No.: 5-5179010-□
14 [.551] Stacking Height



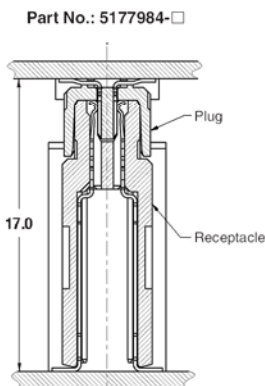
Part No.: 5179030-□

Part No.: 5-5179010-□
15 [.591] Stacking Height

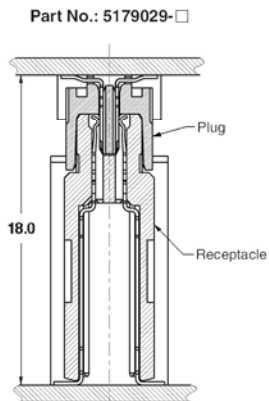


Part No.: 5179031-□

Part No.: 5-5179010-□
16 [.630] Stacking Height

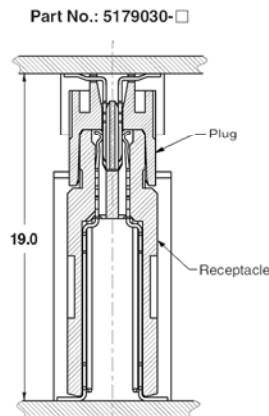


Part No.: 5177984-□
17 [.669] Stacking Height



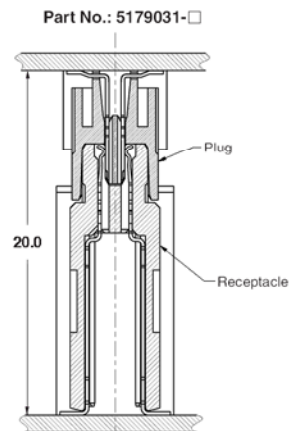
Part No.: 5179029-□

Part No.: 1735480-□
18 [.709] Stacking Height



Part No.: 5179030-□

Part No.: 1735480-□
19 [.748] Stacking Height



Part No.: 5179031-□

Part No.: 1735480-□
20 [.787] Stacking Height