



0.5mm and 1.0mm FFC/FPC Connectors FH12, FH12A, FH12F and FH12S Series — “Flip-Lock” SMT/ZIF Type Flexible Printed Circuit Board Connectors (Cont.)



Fig.	No. of Pos.	Dimensions (mm)		Digi-Key Part No.	Cut Tape Price Each				Digi-Key Part No.	Tape and Reel		Hirose Part No.
		A	B		1	25	100	250		Qty.	Pricing	
1	45	23.07	26.6	HFA145CT-ND	3.86	3.00	2.40	1.93	HFA145TR-ND	2,000	1696.00/M	FH12S-45S-0.5SH(55)
	50	25.57	29.1	HFA150CT-ND	4.18	3.24	2.60	2.09	HFA150TR-ND	2,000	1836.00/M	FH12S-50S-0.5SH(55)
1.0mm Horizontal Mount* — Bottom Contact Type												
1	7	8.07	11.6	HFB07CT-ND	1.33	.96	.79	.67	HFB07TR-ND	2,000	454.00/M	FH12-7S-1SH
	11	12.07	15.6	HFB11CT-ND	1.60	1.16	.95	.80	HFB11TR-ND	2,000	547.00/M	FH12-11S-1SH
	26	27.07	30.6	HFB26CT-ND	1.89	1.46	1.17	.97	—	—	—	FH12-26S-1SH
1.0mm Horizontal Mount* — Bottom Contact Type — RoHS Compliant												
1	5	6.07	9.6	HFB105CT-ND	1.52	1.10	.90	.76	HFB105TR-ND	2,000	520.00/M	FH12-5S-1SH(55)
	6	7.07	10.6	HFB106CT-ND	1.56	1.13	.93	.78	HFB106TR-ND	2,000	533.00/M	FH12-6S-1SH(55)
	7	8.07	11.6	HFB107CT-ND	1.63	1.19	.97	.82	HFB107TR-ND	2,000	559.00/M	FH12-7S-1SH(55)
	8	9.07	12.6	HFB108CT-ND	1.67	1.21	.99	.84	HFB108TR-ND	2,000	572.00/M	FH12-8S-1SH(55)
	9	10.07	13.6	HFB109CT-ND	1.66	1.20	.99	.83	HFB109TR-ND	2,000	598.00/M	FH12-9S-1SH(55)
	11	12.07	15.6	HFB111CT-ND	1.63	1.25	1.00	.83	HFB111TR-ND	2,000	638.00/M	FH12-11S-1SH(55)
	16	17.07	20.6	HFB116CT-ND	1.89	1.45	1.16	.97	HFB116TR-ND	2,000	740.00/M	FH12-16S-1SH(55)
	22	23.07	26.6	HFB122CT-ND	2.08	1.60	1.28	1.07	HFB122TR-ND	2,000	816.00/M	FH12-22S-1SH(55)
26	27.07	30.6	HFB126CT-ND	2.28	1.75	1.40	1.17	HFB126TR-ND	2,000	893.00/M	FH12-26S-1SH(55)	
1.0mm Vertical Mount*												
3	7	6	10.9	HFC07CT-ND	1.66	1.20	.99	.83	—	—	—	FH12-7S-1SV
	8	7	11.9	HFC08CT-ND	1.77	1.28	1.05	.89	HFC08TR-ND	1,000	618.00	FH12-8S-1SV
	20	19	23.9	HFC20CT-ND	1.98	1.53	1.22	1.02	—	—	—	FH12-20S-1SV
	22	21	25.9	HFC22CT-ND	2.12	1.64	1.31	1.09	—	—	—	FH12-22S-1SV
	24	23	27.9	HFC24CT-ND	2.22	1.71	1.37	1.14	—	—	—	FH12-24S-1SV
1.0mm Vertical Mount* — RoHS Compliant												
3	6	5	9.9	HFC106CT-ND	1.63	1.25	1.00	.83	HFC106TR-ND	1,000	665.00	FH12-6S-1SV(55)
	8	7	11.9	HFC108CT-ND	1.72	1.33	1.06	.88	HFC108TR-ND	1,000	705.00	FH12-8S-1SV(55)
	16	15	19.9	HFC116CT-ND	2.21	1.70	1.36	1.13	HFC116TR-ND	1,000	904.00	FH12-16S-1SV(55)
	20	19	23.9	HFC120CT-ND	2.50	1.93	1.54	1.28	HFC120TR-ND	1,000	1024.00	FH12-20S-1SV(55)
	24	23	27.9	HFC124CT-ND	2.86	2.20	1.76	1.47	HFC124TR-ND	1,000	1170.00	FH12-24S-1SV(55)

* Note: The 1.0mm version of FH12 is constructed by loading every other contact into the 0.5mm housing

SMT Zif Type Flexible PCB Connectors

FEATURES:

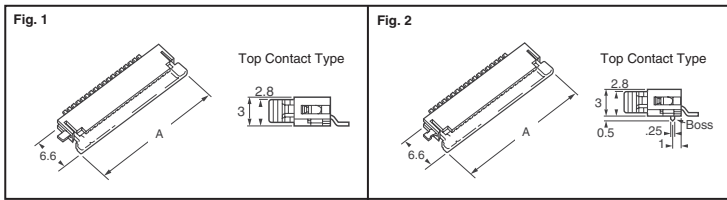
- Low profile type with 3mm packaged height; 1mm pitch permits high-density packaging
- Excellent workability is offered by the ZIF structure which provides positive contact by only lightly inserting FPC/FFC and then pushing in the movable locking flap
- Recommended thickness of flexible circuit board is 0.25mm – 0.30mm
- PPS (UL94V-0) with excellent solvent resistance and high temperature resistance is used for the

insulation material • The SMT type connectors permit high density and automatic packaging on circuit boards

MATERIAL/FINISH:

- Insulator: PPS Resin, natural finish
- Contacts: Phosphor Bronze, tin plating
- Electrical:
 - Rated Current: 0.5A
 - Insulator Resistance: 500MΩ at 100VDC minimum
 - Withstanding Voltage: 150VAC for 1 minute at specified value
 - Contact Resistance: 25mΩ maximum

No. of Pos.	Dim. A (mm)	Digi-Key Part No.	1	10	100	250	Hirose Part No.
Fig. 1 - SMT Flex without Board Mount Boss							
12	18.2	HFE12F-ND	1.92	1.60	1.18	.98	FH10A-12S-1SH
24	30.2	HFE24F-ND	2.73	2.27	1.68	1.40	FH10A-24S-1SH
Fig. 2 - SMT Flex with Board Mount Boss							
8	14.2	HFH08T-ND	1.41	1.15	.84	.71	FH10A-8S-1SHB
30	36.2	HFH30T-ND	2.99	2.48	1.86	1.50	FH10A-30S-1SHB

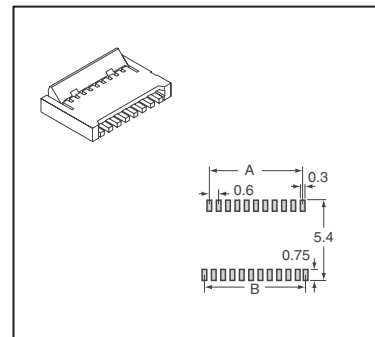


0.3mm-Pitch Rotary Backlock FPC Connector - XF2B



SPECIFICATIONS: • Rated Current: 0.2A AC/DC • Rated Voltage: 50V AC/DC • Insertion Tolerance: 20 times • Operating Temperature: -30°C – 85°C **MATERIALS/FINISH:** • Housing: LCP resin (UL94V-0)/natural • Slider: LCP resin (UL94V-0)/black • Contact: Spring copper alloy/nickel substrate (2µm), gold-plated contacts (0.15µm)

No. of Pos.	Dimensions (mm) A B	Digi-Key Part No.	1	25	50	Digi-Key Part No.	Tape and Reel Pricing 1,500	Omron Part No.
17	4.2 4.8	OR694CT-ND	1.63	1.47	1.31	—	—	XF2B-1745-31A
21	5.4 6.0	OR857CT-ND	1.89	1.70	1.51	OR857TR-ND	943.38/M	XF2B-2145-31A
23	6.0 6.6	OR695CT-ND	2.01	1.82	1.61	OR695TR-ND	1005.88/M	XF2B-2345-31A
25	6.6 7.2	OR858CT-ND	2.09	1.88	1.67	OR858TR-ND	1043.26/M	XF2B-2545-31A
27	7.2 7.8	OR773CT-ND	2.16	1.95	1.73	OR773TR-ND	1080.63/M	XF2B-2745-31A
31	8.4 9.0	OR696CT-ND	2.41	2.17	1.93	—	—	XF2B-3145-31A
33	9.0 9.6	OR697CT-ND	2.60	2.34	2.08	OR697TR-ND	1298.00/M	XF2B-3345-31A
35	9.6 10.2	OR859CT-ND	2.74	2.47	2.20	OR859TR-ND	1369.88/M	XF2B-3545-31A
45	12.6 13.2	OR860CT-ND	3.15	2.84	2.52	OR860TR-ND	1573.88/M	XF2B-4545-31A
51	14.4 15.0	OR772CT-ND	3.49	3.14	2.79	OR772TR-ND	1743.26/M	XF2B-5145-31A
61	17.4 18.0	OR776CT-ND NEW!	3.89	3.51	3.12	OR776TR-ND NEW!	1945.13/M	XF2B-6155-31A

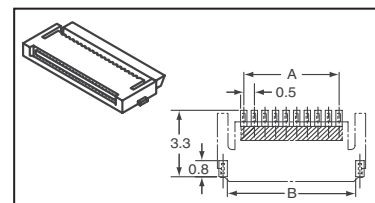


0.5mm-Pitch Rotary Backlock FPC Connector - XF2W



FEATURES: • Double-sided contacts reduce the number of parts • Wire molding wall on the rear bottom of the connector allows greater freedom in board design • Applicable FPC thickness of 0.3mm **SPECIFICATIONS:** • Rated Current: 0.5A AC/DC • Rated Voltage: 50V AC/DC • Insertion Tolerance: 20 times • Operating Temperature: -30°C – 85°C **MATERIALS/FINISH:** • Housing: LCP resin (UL94V-0)/natural • Slider: LCP resin (UL94V-0)/brown • Contact: Spring copper alloy/nickel substrate (2µm), gold-plated contacts (0.15µm) • Hold-down: Spring copper alloy/fused-tin plating (2µm)

No. of Pos.	Dimensions (mm) A B	Digi-Key Part No.	1	25	50	Digi-Key Part No.	Tape and Reel Pricing 2,000	Omron Part No.
16	7.5 9.1	OR875CT-ND	.90	.81	.72	OR875TR-ND	448.50/M	XF2W-1615-1A
20	9.5 11.1	OR876CT-ND	1.18	1.06	.95	OR876TR-ND	587.88/M	XF2W-2015-1A
24	11.5 13.1	OR877CT-ND	1.41	1.27	1.13	OR877TR-ND	705.25/M	XF2W-2415-1A
64	31.5 33.1	OR878CT-ND	3.22	2.91	2.58	OR878TR-ND	1611.25/M	XF2W-6415-1AE



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