

FFC series

2.54 mm Pitch Connectors

Outline

FFC series are highly reliable and proven 2.54 mm pitch PCB header connectors, which fit a wide range of uses.

Features

- Can be used for board-to-cable or board-to-board applications in combination with female connectors such as HONDA HKP series.
- Can be used as a terminal board for switching between circuits on a PCB in combination with HONDA DIC series of connectors.
- The number of contacts are selectable as required.
- Pin is selectable to correspond to a mating female connector, or for other particular use.
- Two types of contact plating, gold plate and tin copper plate are available, which are selectable depending on usage.
- Two colors, black and blue, are available for molded insulators.
- Extracting a pin to prevent misinsertion is possible.

Principal Applications

Office automation equipment and communications equipment

Electrical Characteristics

Rated voltage	300V AC
Rated current	3 A
Insulation resistance	Over 1000 megohms at 500V DC
Dielectric withstanding voltage	1000V AC (r.m.s.) (for up to one minute)

Document Disclaimer

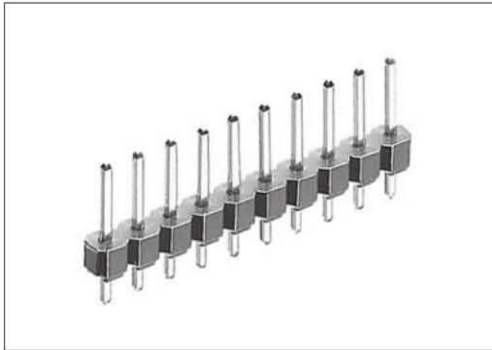
- When placing orders with us, minimum order quantities are set for every product.
- Be sure to contact us before starting preliminary design of PCBs using our connectors.
- The specifications and information shown in the catalog are subject to change without notice.

Straight through hole type male connector for PCB
FFC-()AMEP()()

For PCB

Straight Through hole

RoHS



● Configuration of product Part No.

FFC- () AMEP () ()

① ② ③ ④ ⑤

- ① Series name
- ② No. of contacts: 1-52
- ③ Type of contact
AMEP: 0.635 mm square contacts, single row type
- ④ Contact plating
1 : Gold plate
21: Tin copper plate
- ⑤ Insulator color
Blank: Blue
B : Black

Recommended PCB layout

① Insulator
② Contact

● Dimensions

No. of contacts	A	B	No. of contacts	A	B
1	-	2.54	27	66.04	68.58
2	2.54	5.08	28	68.58	71.12
3	5.08	7.62	29	71.12	73.66
4	7.62	10.16	30	73.66	76.20
5	10.16	12.70	31	76.20	78.74
6	12.70	15.24	32	78.74	81.28
7	15.24	17.78	33	81.28	83.82
8	17.78	20.32	34	83.82	86.36
9	20.32	22.86	35	86.36	88.90
10	22.86	25.40	36	88.90	91.44
11	25.40	27.94	37	91.44	93.98
12	27.94	30.48	38	93.98	96.52
13	30.48	33.02	39	96.52	99.06
14	33.02	35.56	40	99.06	101.60
15	35.56	38.10	41	101.60	104.14
16	38.10	40.64	42	104.14	106.68
17	40.64	43.18	43	106.68	109.22
18	43.18	45.72	44	109.22	111.76
19	45.72	48.26	45	111.76	114.30
20	48.26	50.80	46	114.30	116.84
21	50.80	53.34	47	116.84	119.38
22	53.34	55.88	48	119.38	121.92
23	55.88	58.42	49	121.92	124.46
24	58.42	60.96	50	124.46	127.00
25	60.96	63.50	51	127.00	129.54
26	63.50	66.04	52	129.54	132.08

Part No.	C	D
FFC-(1-52)AMEP()()	6	2.5

Mating connectors: DIC series or HKP series female connector

Z-220-()FD (Cross section of contact: FFC-()T9AMEP1(B) 0.635 mm square, Length of contact: 5 mm)

Right-angle through hole type male connector for PCB
FFC-()LAMEP() ()

For PCB

Right-angle Through hole

RoHS



● Configuration of product Part No.

FFC- () L A M E P () ()

① ② ③ ④ ⑤ ⑥

- ① Series name
- ② No. of contacts: 1-52
- ③ Type of contact
L: Right-angle
- ④ Type of contact
AMEP: 0.635 mm square contacts, single row type
- ⑤ Contact plating
1 : Gold plate
21: Tin copper plate
- ⑥ Insulator color
Blank: Blue
B : Black

● Components

①	Insulator
②	Contact

● Dimensions

No. of contacts	A	B	No. of contacts	A	B
1	—	2.54	27	66.04	68.58
2	2.54	5.08	28	68.58	71.12
3	5.08	7.62	29	71.12	73.66
4	7.62	10.16	30	73.66	76.20
5	10.16	12.70	31	76.20	78.74
6	12.70	15.24	32	78.74	81.28
7	15.24	17.78	33	81.28	83.82
8	17.78	20.32	34	83.82	86.36
9	20.32	22.86	35	86.36	88.90
10	22.86	25.40	36	88.90	91.44
11	25.40	27.94	37	91.44	93.98
12	27.94	30.48	38	93.98	96.52
13	30.48	33.02	39	96.52	99.06
14	33.02	35.56	40	99.06	101.60
15	35.56	38.10	41	101.60	104.14
16	38.10	40.64	42	104.14	106.68
17	40.64	43.18	43	106.68	109.22
18	43.18	45.72	44	109.22	111.76
19	45.72	48.26	45	111.76	114.30
20	48.26	50.80	46	114.30	116.84
21	50.80	53.34	47	116.84	119.38
22	53.34	55.88	48	119.38	121.92
23	55.88	58.42	49	121.92	124.46
24	58.42	60.96	50	124.46	127.00
25	60.96	63.50	51	127.00	129.54
26	63.50	66.04	52	129.54	132.08

Recommended PCB layout

Part No.	C	D	E
FFC-(1-52)LAMEP() ()	6	1.27	3.45

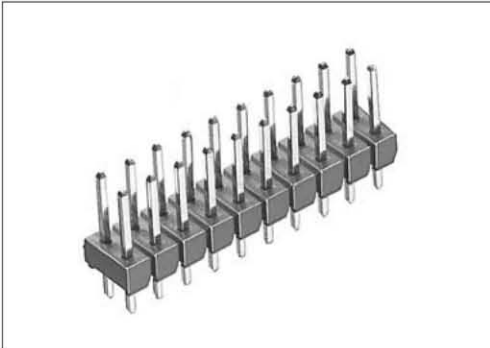
Mating connectors: DIC series or HKP series female connector

Straight through hole type male connector for PCB
FFC-()BMEP()()

For PCB

Straight Through hole

RoHS



● Configuration of product Part No.

FFC- () BMEP () ()

① ② ③ ④ ⑤

- ① Series name
- ② No. of contacts: 4-144
- ③ Type of contact
BMEP: 0.635 mm square contacts,
double row type
- ④ Contact plating
1 : Gold plate
21: Tin copper plate
- ⑤ Insulator color
Blank: Blue
B : Black

Recommended PCB layout

● Dimensions

No. of contacts	A	B	No. of contacts	A	B
4	2.54	5.08	76	93.98	96.52
6	5.08	7.62	78	96.52	99.06
8	7.62	10.16	80	99.06	101.60
10	10.16	12.70	82	101.60	104.14
12	12.70	15.24	84	104.14	106.68
14	15.24	17.78	86	106.68	109.22
16	17.78	20.32	88	109.22	111.76
18	20.32	22.86	90	111.76	114.30
20	22.86	25.40	92	114.30	116.84
22	25.40	27.94	94	116.84	119.38
24	27.94	30.48	96	119.38	121.92
26	30.48	33.02	98	121.92	124.46
28	33.02	35.56	100	124.46	127.00
30	35.56	38.10	102	127.00	129.54
32	38.10	40.64	104	129.54	132.08
34	40.64	43.18	106	132.08	134.62
36	43.18	45.72	108	134.62	137.16
38	45.72	48.26	110	137.16	139.70
40	48.26	50.80	112	139.70	142.24
42	50.80	53.34	114	142.24	144.78
44	53.34	55.88	116	144.78	147.32
46	55.88	58.42	118	147.32	149.86
48	58.42	60.96	120	149.86	152.40
50	60.96	63.50	122	152.40	154.94
52	63.50	66.04	124	154.94	157.48
54	66.04	68.58	126	157.48	160.02
56	68.58	71.12	128	160.02	162.56
58	71.12	73.66	130	162.56	165.10
60	73.66	76.20	132	165.10	167.64
62	76.20	78.74	134	167.64	170.18
64	78.74	81.28	136	170.18	172.72
66	81.28	83.82	138	172.72	175.26
68	83.82	86.36	140	175.26	177.80
70	86.36	88.90	142	177.80	180.34
72	88.90	91.44	144	180.34	182.88
74	91.44	93.98			

● Components

①	Insulator
②	Contact

Part No.	C	D
FFC-(4~144)BMEP()()	6	2.5

Mating connectors: DIC series or HKP series female connector
Z-282 or Z-325 female connector

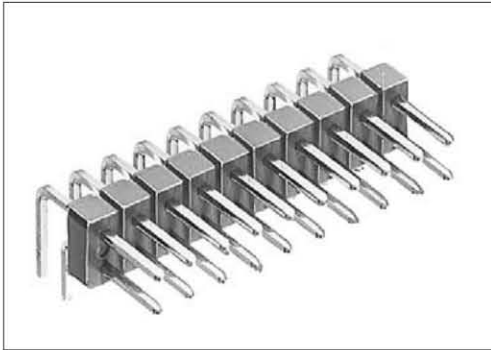
Right-angle through hole type male connector for PCB FFC-()LBMEP()()

2.54 mm pitch connector

For PCB

Right-angle Through hole

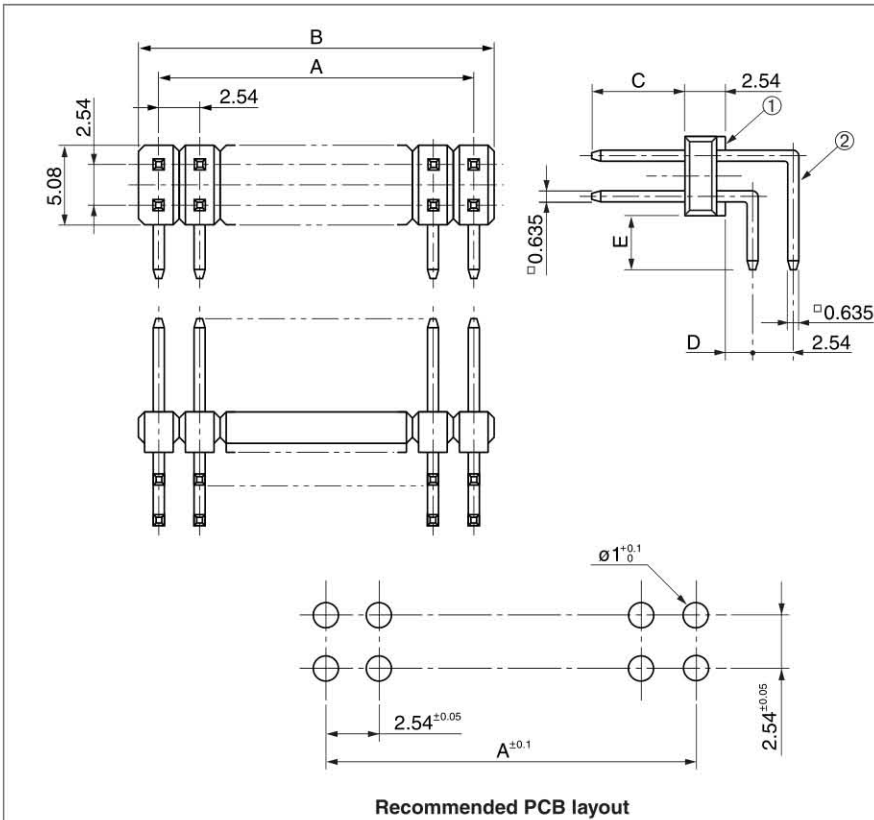
RoHS



● Configuration of product Part No.

FFC- () L BMEP () ()

- | | |
|--|----------------------|
| ① Series name | ⑤ Contact plating |
| ② No. of contacts: 2-144 | 1 : Gold plate |
| ③ Type of contact | 21: Tin copper plate |
| L: Right-angle | ⑥ Insulator color |
| ④ Type of contact | Blank: Blue |
| BMEP: 0.635 square contacts, double row type | B : Black |



● Dimensions

No. of contacts	A	B	No. of contacts	A	B
2	-	2.54	74	91.44	93.98
4	2.54	5.08	76	93.98	96.52
6	5.08	7.62	78	96.52	99.06
8	7.62	10.16	80	99.06	101.60
10	10.16	12.70	82	101.60	104.14
12	12.70	15.24	84	104.14	106.68
14	15.24	17.78	86	106.68	109.22
16	17.78	20.32	88	109.22	111.76
18	20.32	22.86	90	111.76	114.30
20	22.86	25.40	92	114.30	116.84
22	25.40	27.94	94	116.84	119.38
24	27.94	30.48	96	119.38	121.92
26	30.48	33.02	98	121.92	124.46
28	33.02	35.56	100	124.46	127.00
30	35.56	38.10	102	127.00	129.54
32	38.10	40.64	104	129.54	132.08
34	40.64	43.18	106	132.08	134.62
36	43.18	45.72	108	134.62	137.16
38	45.72	48.26	110	137.16	139.70
40	48.26	50.80	112	139.70	142.24
42	50.80	53.34	114	142.24	144.78
44	53.34	55.88	116	144.78	147.32
46	55.88	58.42	118	147.32	149.86
48	58.42	60.96	120	149.86	152.40
50	60.96	63.50	122	152.40	154.94
52	63.50	66.04	124	154.94	157.48
54	66.04	68.58	126	157.48	160.02
56	68.58	71.12	128	160.02	162.56
58	71.12	73.66	130	162.56	165.10
60	73.66	76.20	132	165.10	167.64
62	76.20	78.74	134	167.64	170.18
64	78.74	81.28	136	170.18	172.72
66	81.28	83.82	138	172.72	175.26
68	83.82	86.36	140	175.26	177.80
70	86.36	88.90	142	177.80	180.34
72	88.90	91.44	144	180.34	182.88

● Components

① Insulator
② Contact

Part No.	C	D	E
FFC-(2-144)LBMEP()()	6	1.27	3.54

Mating connectors: DIC series or HKP series female connector

Straight through hole type female connector for PCB
Z-220-()FD

For PCB

Straight Through hole

RoHS



● Configuration of product Part No.

Z-220- () FD

① ② ③

- ① Series name
- ② No. of contacts: 1–34
- ③ Type of contact
 FD: Straight through hole type, female
 Contact plating: Gold plate

● Dimensions

No. of contacts	A	B
1	—	2.54
2	2.54	5.08
3	5.08	7.62
4	7.62	10.16
5	10.16	12.70
6	12.70	15.24
7	15.24	17.78
8	17.78	20.32
9	20.32	22.86
10	22.86	25.40
11	25.40	27.94
12	27.94	30.48
13	30.48	33.02
14	33.02	35.56
15	35.56	38.10
16	38.10	40.64
17	40.64	43.18
18	43.18	45.72
19	45.72	48.26
20	48.26	50.80
21	50.80	53.34
22	53.34	55.88
23	55.88	58.42
24	58.42	60.96
25	60.96	63.50
26	63.50	66.04
27	66.04	68.58
28	68.58	71.12
29	71.12	73.66
30	73.66	76.20
31	76.20	78.74
32	78.74	81.28
33	81.28	83.82
34	83.82	86.36

● Components

①	Insulator
②	Contact

Recommended PCB layout

Mating connectors: FFC series male connector (Cross section of contact: 0.635 mm square, Length of contact: 5 mm)

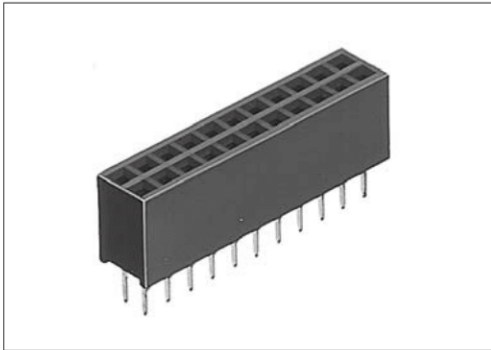
FFC-()T9AMEP1(B) or FFC-()T19LAMEP1(B) male connector

Straight through hole type female connector for PCB
Z-325-()FD2

For PCB

Straight Through hole

RoHS

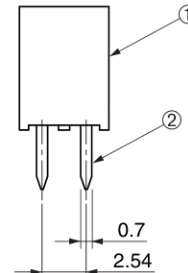
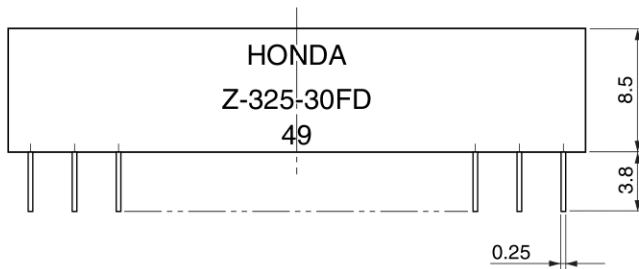
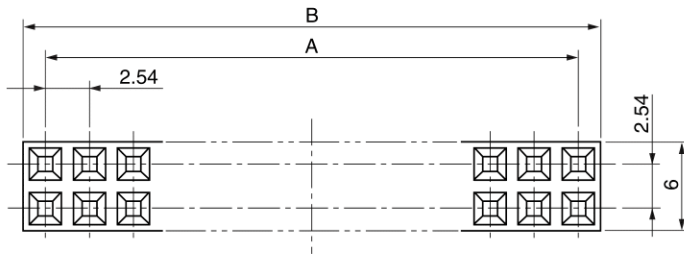


● Configuration of product Part No.

Z-325- () FD 2

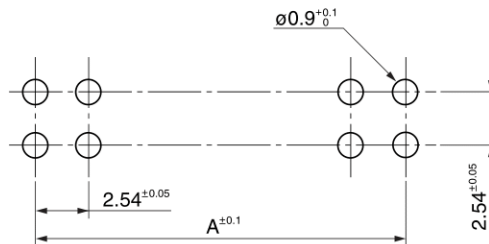
① ② ③ ④

- ① Series name
- ② No. of contacts: 4–50
- ③ Type of contact
FD: Straight through hole type, female
- ④ Contact plating
Contact surface; Gold plate
Through hole portion; Tin plate



● Dimensions

No. of contacts	A	B
4	2.54	5.74
6	5.08	8.28
8	7.62	10.82
10	10.16	13.36
12	12.7	15.9
14	15.24	18.44
16	17.78	20.98
18	20.32	23.52
20	22.86	26.06
22	25.4	28.6
24	27.94	31.14
26	30.48	33.68
28	33.02	36.22
30	35.56	38.76
32	38.1	41.3
34	40.64	43.84
36	43.18	46.38
38	45.72	48.92
40	48.26	51.46
42	50.8	54
44	53.34	56.54
46	55.88	59.08
48	58.42	61.62
50	60.96	64.16



Recommended PCB layout

● Components

①	Insulator
②	Contact

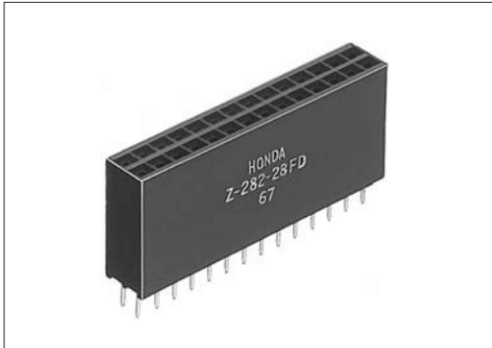
Mating connectors: FFC series or HKP series male connector (Cross section of contact: 0.635 mm square, Length of contact: 6 mm)

Straight through hole type female connector for PCB
Z-282-()FD+

For PCB

Straight Through hole

RoHS

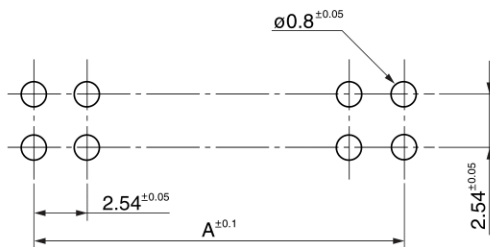
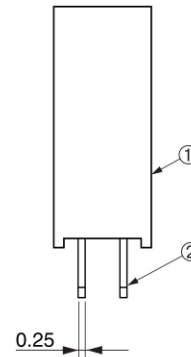
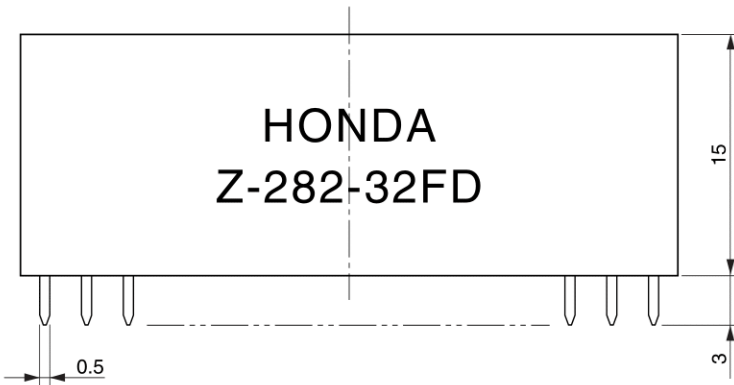
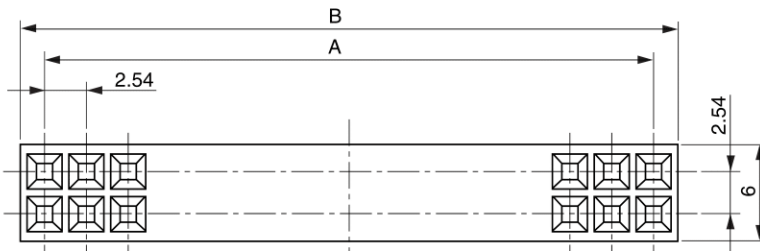


● Configuration of product Part No.

Z-282- () FD+

① ② ③

- ① Series name
- ② No. of contacts: 2–62
- ③ Type of contact
 FD: Straight through hole type, female



● Dimensions

No. of contacts	A	B
2	—	3.0
4	2.54	5.54
6	5.08	8.08
8	7.62	10.62
10	10.16	13.16
12	12.70	15.70
14	15.24	18.24
16	17.78	20.78
18	20.32	23.32
20	22.86	25.86
22	25.40	28.40
24	27.94	30.94
26	30.48	33.5
28	33.02	36.0
30	35.56	38.56
32	38.10	41.1
34	40.64	43.64
36	43.18	46.18
38	45.72	48.72
40	48.26	51.26
42	50.80	53.8
44	53.34	56.34
46	55.88	58.88
48	58.42	61.42
50	60.96	63.96
52	63.50	66.5
54	66.04	69.04
56	68.58	71.58
58	71.12	74.12
60	73.66	76.66
62	76.20	79.2

● Components

①	Insulator
②	Contact

Recommended PCB layout

Mating connectors: FFC series or HKP series male connector (Cross section of contact: 0.635 mm square, Length of contact: 6–7 mm)

**Straight through hole type female connector for PCB
(round contact type)
Z-279-()FD**

For PCB

Straight Through hole

RoHS



● Configuration of product Part No.

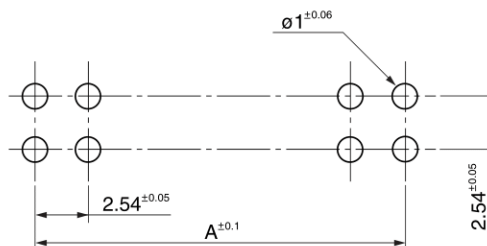
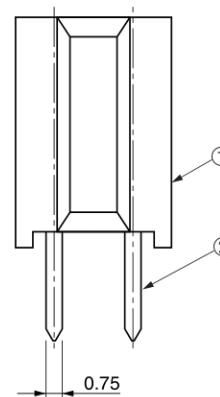
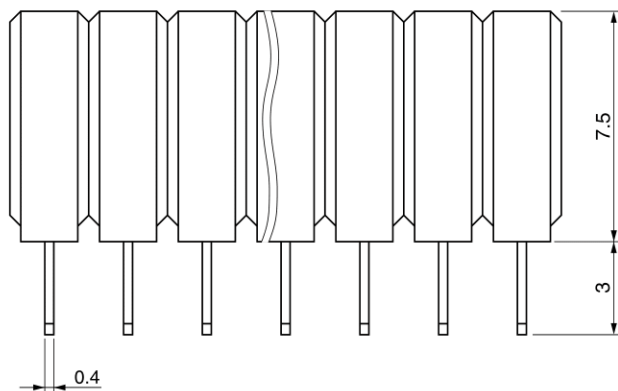
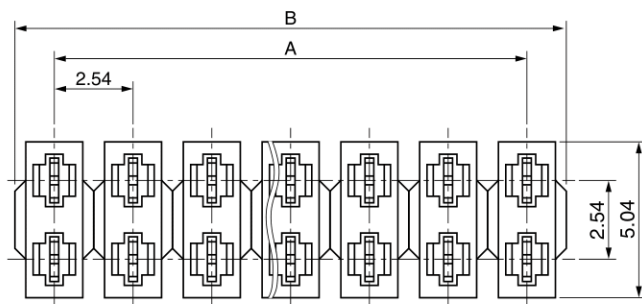
Z-279-() FD

① ② ③

- ① Series name
- ② No. of contacts: 2-72
- ③ Type of contact
FD: Straight through hole type, female
Contact plating: Gold plate

● Dimensions

No. of contacts	A	B
2	-	2.54
4	2.54	5.08
6	5.08	7.62
8	7.62	10.16
10	10.16	12.70
12	12.70	15.24
14	15.24	17.78
16	17.78	20.32
18	20.32	22.86
20	22.86	25.40
22	25.40	27.94
24	27.94	30.48
26	30.48	33.02
28	33.02	35.56
30	35.56	38.10
32	38.10	40.64
34	40.64	43.18
36	43.18	45.72
38	45.72	48.26
40	48.26	50.80
42	50.80	53.34
44	53.34	55.88
46	55.88	58.42
48	58.42	60.96
50	60.96	63.50
52	63.50	66.04
54	66.04	68.58
56	68.58	71.12
58	71.12	73.66
60	73.66	76.20
62	76.20	78.74
64	78.74	81.28
66	81.28	83.82
68	83.82	86.36
70	86.36	88.90
72	88.90	91.44



Recommended PCB layout

● Components

①	Insulator
②	Contact

Mating connectors: FFC series male connector (Cross section of contact: 0.64 mm diameter, Length of contact: 5 mm)

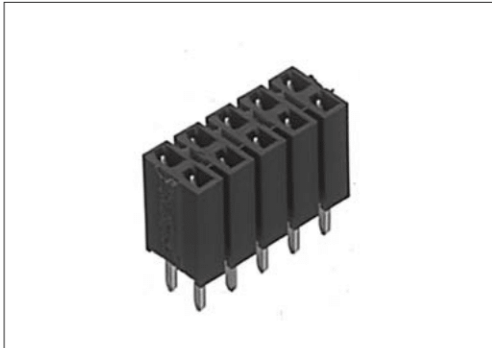
FFC-()THM1(B) or FFC-()TDM1(B) male connector

Straight through hole type female connector for PCB
(Square contact type)
Z-279S-()FD

For PCB

Straight Through hole

RoHS



● Configuration of product Part No.

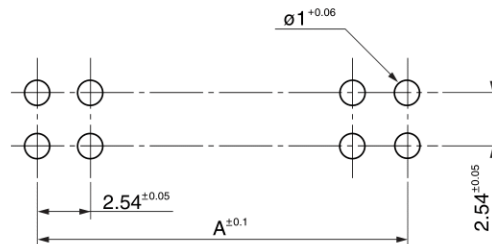
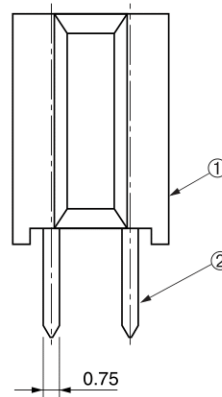
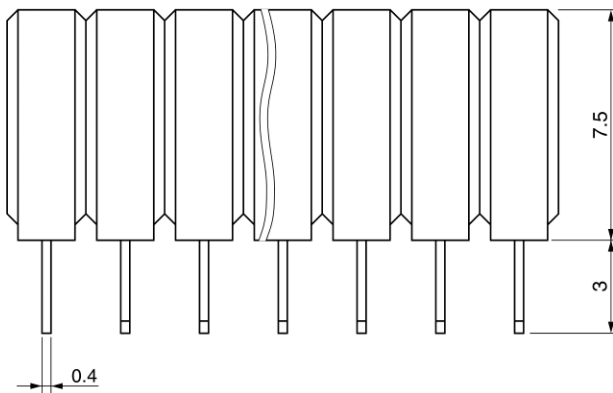
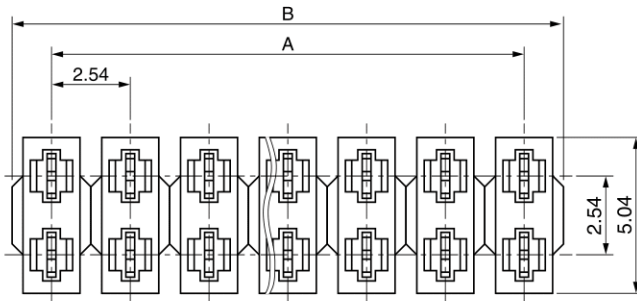
Z-279S-()FD

① ② ③

- ① Series name
- ② No. of contacts: 2-72
- ③ Type of contact
 FD: Straight through hole type, female
 Contact plating : Gold plate

● Dimensions

No. of contacts	A	B
2	-	2.54
4	2.54	5.08
6	5.08	7.62
8	7.62	10.16
10	10.16	12.70
12	12.70	15.24
14	15.24	17.78
16	17.78	20.32
18	20.32	22.86
20	22.86	25.40
22	25.40	27.94
24	27.94	30.48
26	30.48	33.02
28	33.02	35.56
30	35.56	38.10
32	38.10	40.64
34	40.64	43.18
36	43.18	45.72
38	45.72	48.26
40	48.26	50.80
42	50.80	53.34
44	53.34	55.88
46	55.88	58.42
48	58.42	60.96
50	60.96	63.50
52	63.50	66.04
54	66.04	68.58
56	68.58	71.12
58	71.12	73.66
60	73.66	76.20
62	76.20	78.74
64	78.74	81.28
66	81.28	83.82
68	83.82	86.36
70	86.36	88.90
72	88.90	91.44



Recommended PCB layout

● Components

①	Insulator
②	Contact

Mating connectors: FFC series male connector (Cross section of contact: 0.635 mm square, Length of contact: 5 mm)

FFC-()T9BMEP1(B) or FFC-()T19LBMEP1(B) male connector