

R78R Series Micro-miniature Rectangular Electrical Connectors

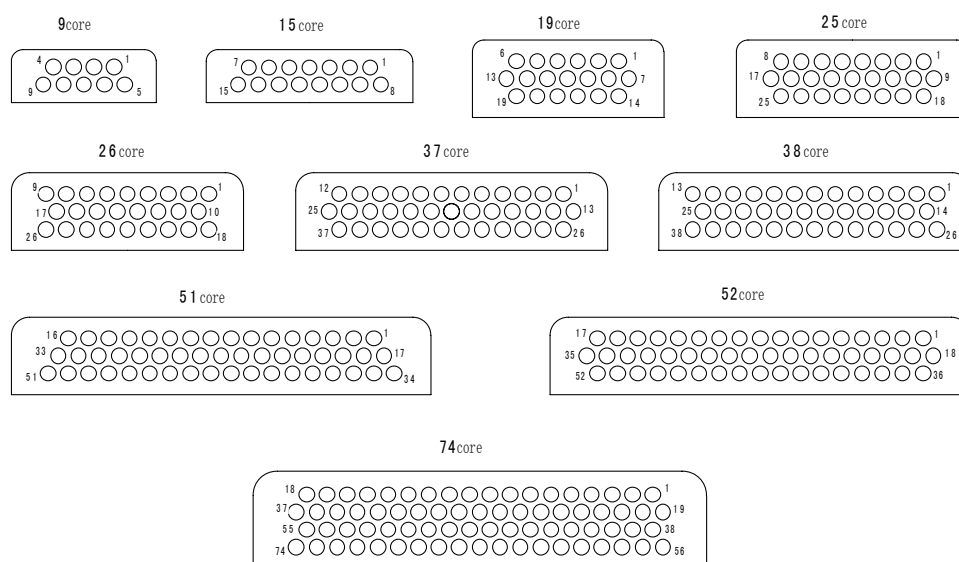
Product brief introduction

- comply with GJB2446
- Contact couples are elastic twisted wire pin(twist pin) and rigid socket with reliable contact.
- metallic shielding shell with cable clamp and quick lock device
- Many types of termination such as crimp, soldering, straight and right angle PCB soldering.
- plug and receptacle are loaded with pins or sockets
- ten types of contact numbers of 9, 15, 19, 25, 26, 37, 38, 51, 52 and 74
- implemented enterprise standard: 21E0.204.106JT

Main technical performance

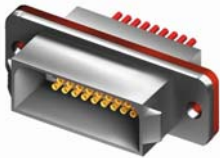
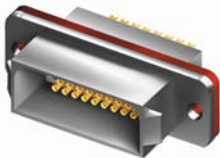
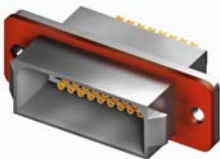
- | | |
|--|-------------------------------------|
| — operation temperature: $-55^{\circ}\text{C} \sim +125^{\circ}\text{C}$ | —current rating: 5A |
| —RH: $+40^{\circ}\text{C}$, 98% | — insulation resistance: |
| — vibration: 10~2000 Hz, 254 m/s ² | ≥1000 MΩ (9、19、25、37、52、74) |
| — random vibration : power spectrum density $0.4\text{G}^2/\text{Hz}$, total acceleration RMS 23.1G | ≥5000 MΩ (15、26、38、51) |
| — low pressure: 4KPa | — dielectric withstanding voltage : |
| — shock: 980 m/s ² | 800 V (9、19、25、37、52、74) |
| — contact resistance: ≤10mΩ | 1000 V (15、26、38、51) |
| | — durability: 1000 cycles |

Insertion arrangements (face view of pin insert)



product classification

plug(can be installed with both pin and socket)			
crimp		solder	
general type (front push lock and rear pull release)	quick lock type (rear pull lock and front push release)	general type (front push lock and rear pull release)	quick lock type (rear pull lock and front push release)
 R78R-xTJ(K)	 R78R-xTJ(K)-C	 R78R-xTJ(K)H	 R78R-xTJ(K)H-C

receptacle(can be installed with both pin and socket)		
crimp	solder	PCB soldering
front panel mounting  R78R-xZK(J)	front panel mounting  R78R-xZK(J)H	straight PCB  R78R-xZK(J)N
mounting behind panel  R78R II -xZK(J)	mounting behind panel  R78R II -xZK(J)H	right angle PCB  R78R-xZK(J)W

Ordering Information

Plug ordering information

R78R 15 I J H C (additional notes)
 1 2 3 4 5 6 7

- 1 basic series: R78R
- 2 number of contacts: 9、15、19、25、26、37、38、51、52、74
- 3 connector type: T—plug
- 4 contact type: J—pin; K—孔 socket
- 5 types of termination: none—crimp; H—soldering
- 6 plug type: none—general type; C—quick lock
- 7 "additional notes(only for crimp product): details see "ordering information"

Receptacle ordering information

R78R II 15 Z K H (additional notes)
 1 2 3 4 5 6 7

- 1 basic series: R78R
- 2 mounting types (only for crimp and soldering receptacle): none—front panel mounting;
 II — mounting behind panel
- 3 number of contacts: 9、15、19、25、26、37、38、51、52、74
- 4 connector type: Z—receptacle
- 5 contact type: J—pin; K—socket
- 6 types of termination: none—crimp; H—soldering; N—straight PCB; W—right angle PCB
- 7 additional notes(only for crimp product): details see "ordering information"

Ordering information

1. If there is no special note when customer is choosing crimp products. R78R series' wire size, color and length are: AFR-250-1×0.15-250V — jacinth , wire length protrusion from shell L=200mm;

If customer have special requirements on wires, additional notes shall be added after plug or receptacle part number, details are as follows:

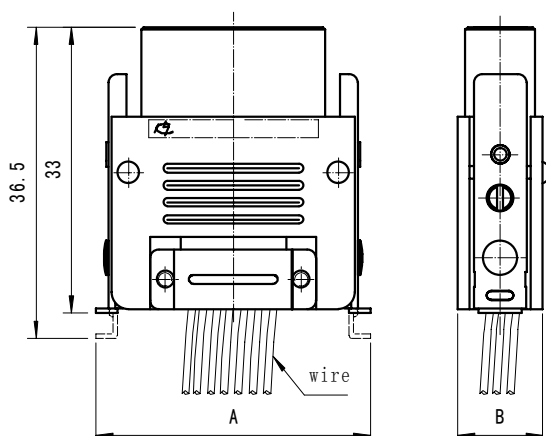
- 1) wire section: directly mark out wire section area value, if omitted, it's 0.15mm²; wire section area for this series is 0.1~0.2mm²;
- 2) wire color: directly mark out color. if omitted, it's jacinth;
- 3) wire length: wire length protrusion from shell(in mm). if omitted, it's 200mm.

For example: customer order is R78R-9TJ and requires AFR-250-1×0.2-250V red wire of 0.6m in length, ordering part number is R78R-9TJ (0.2 red L600) .

Outline dimensions

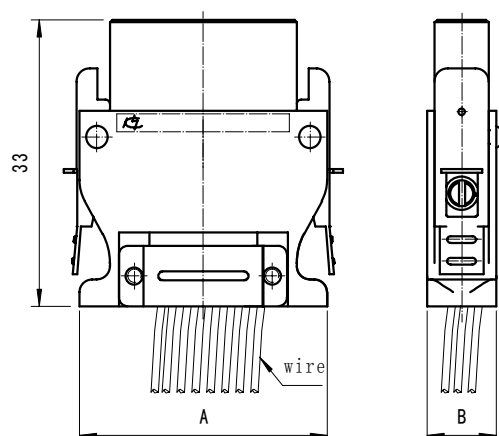
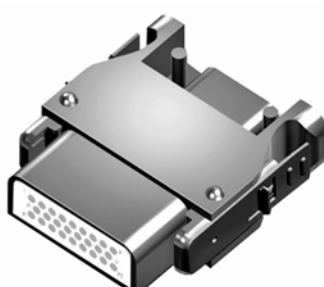
Crimp plug

R78R-×TJ(K) general type
(front push lock and rear pull release)



P/N	A	B
R78R-9TJ(K)	24.2	8
R78R-15TJ(K)	29.2	8
R78R-19TJ(K)	28.2	10
R78R-25TJ(K)	31.6	10
R78R-26TJ(K)	31.6	10
R78R-37TJ(K)	38.2	10
R78R-38TJ(K)	38.2	10
R78R-51TJ(K)	47.2	10
R78R-52TJ(K)	47.2	10
R78R-74TJ(K)	49.2	11.6

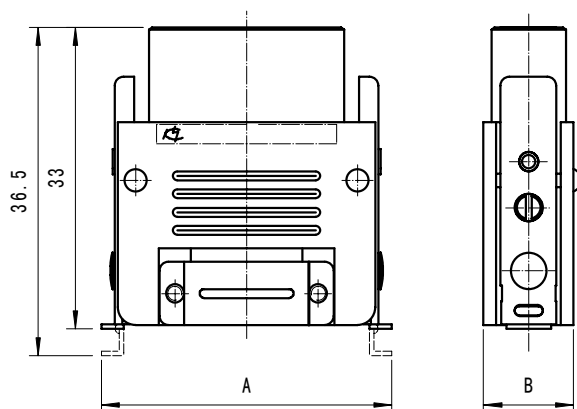
R78R-×TJ(K)-C quick lock type
(rear pull lock and front push release)



P/N	A	B
R78R-9TJ(K)-C	21.2	8
R78R-15TJ(K)-C	26.3	8
R78R-19TJ(K)-C	25.2	10
R78R-25TJ(K)-C	28.6	10
R78R-26TJ(K)-C	28.6	10
R78R-37TJ(K)-C	35.2	10
R78R-38TJ(K)-C	35.2	10
R78R-51TJ(K)-C	44.2	10
R78R-52TJ(K)-C	44.2	10
R78R-74TJ(K)-C	46.2	11.6

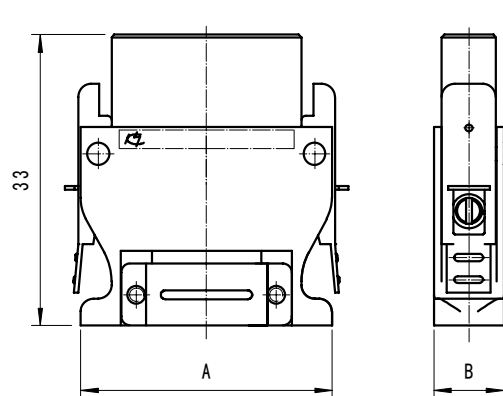
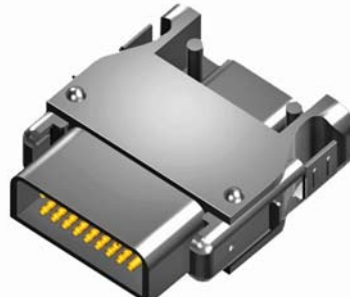
solder plug

R78R-×TJ(K)H general type
(front push lock and rear pull release)



P/N	A	B
R78R-9TJ(K)H	24.2	8
R78R-15TJ(K)H	29.2	8
R78R-19TJ(K)H	28.2	10
R78R-25TJ(K)H	31.6	10
R78R-26TJ(K)H	31.6	10
R78R-37TJ(K)H	38.2	10
R78R-38TJ(K)H	38.2	10
R78R-51TJ(K)H	47.2	10
R78R-52TJ(K)H	47.2	10
R78R-74TJ(K)H	49.2	11.6

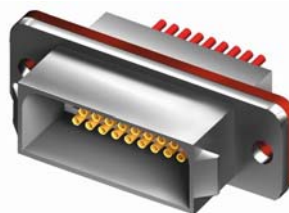
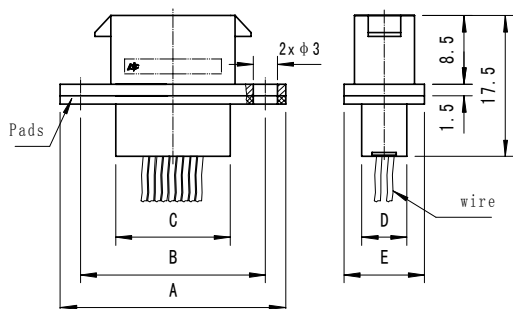
R78R-×TJ(K)H-C quick lock type
(rear pull lock and front push release)



P/N	A	B
R78R-9TJ(K)H-C	21.2	8
R78R-15TJ(K)H-C	26.3	8
R78R-19TJ(K)H-C	25.2	10
R78R-25TJ(K)H-C	28.6	10
R78R-26TJ(K)H-C	28.6	10
R78R-37TJ(K)H-C	35.2	10
R78R-38TJ(K)H-C	35.2	10
R78R-51TJ(K)H-C	44.2	10
R78R-52TJ(K)H-C	44.2	10
R78R-74TJ(K)H-C	46.2	11.6

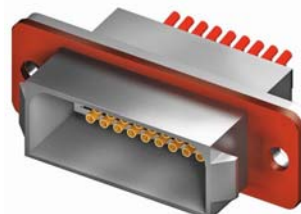
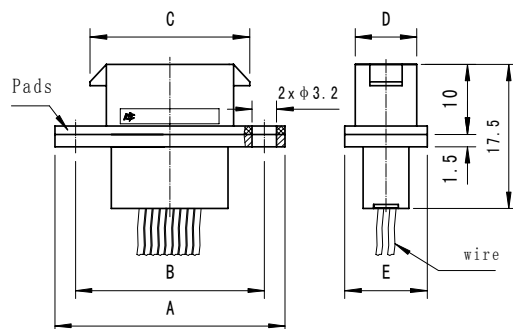
Crimp receptacle

- R78R-×ZK(J) crimp receptacle mounted before panel



P/N	A	B	C	D	E
R78R-9ZK(J)	28	23	14.2	5.6	10
R78R-15ZK(J)	34	29	19.4	5.6	10
R78R-19ZK(J)	32	27	18.2	8.1	12
R78R-25ZK(J)	35.4	30.4	21.6	8.1	12
R78R-26ZK(J)	35.4	30.4	21.6	8.1	12
R78R-37ZK(J)	42	37	28.2	8.1	12
R78R-38ZK(J)	42	37	28.2	8.1	12
R78R-51ZK(J)	51	46	37.2	8.1	12
R78R-52ZK(J)	51	46	37.2	8.1	12
R78R-74ZK(J)	53	48	39.2	9.7	14

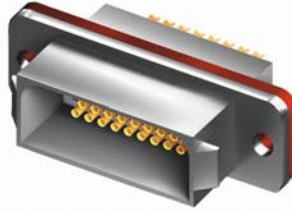
- R78R II -×ZK(J) crimp receptacle mounted behind panel



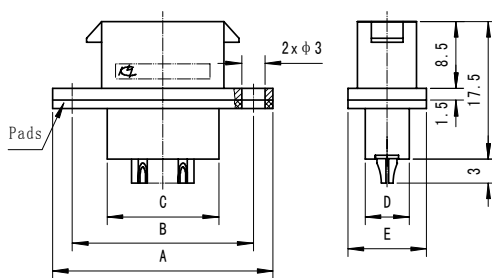
P/N	A	B	C	D	E
R78R II -9ZK(J)	30.2	25.2	19.3	7.5	11.5
R78R II -15ZK(J)	36.2	31.2	25.3	8.9	12
R78R II -19ZK(J)	34.2	29.2	23.3	9.8	14
R78R II -25ZK(J)	37.5	32.5	26.7	9.8	14
R78R II -26ZK(J)	37.5	32.5	26.7	9.8	14
R78R II -37ZK(J)	44	39	33.3	9.8	14
R78R II -38ZK(J)	44	39	33.3	9.8	14
R78R II -51ZK(J)	53	48	42.3	9.8	14
R78R II -52ZK(J)	53	48	42.3	9.8	14
R78R II -74ZK(J)	55	50	44.3	11.8	16

Solder receptacle

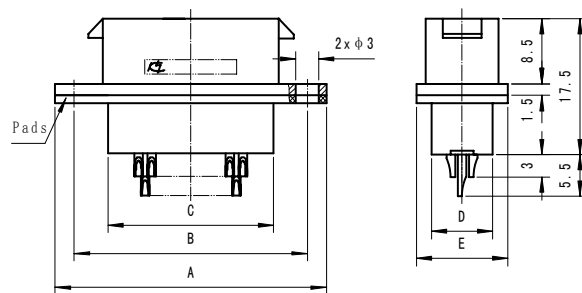
- R78R-×ZK(J)H solder receptacle mounted before panel



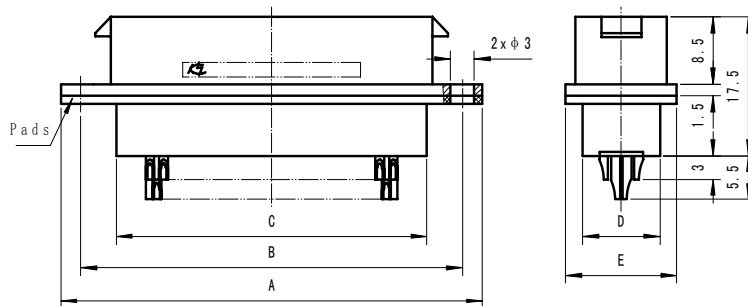
R78R-9、15ZK(J)H



R78R-19~52ZK(J)H

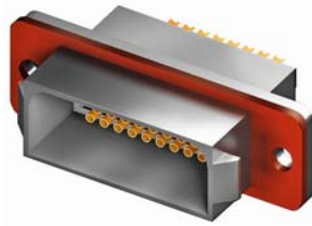


R78R-74ZK(J)H

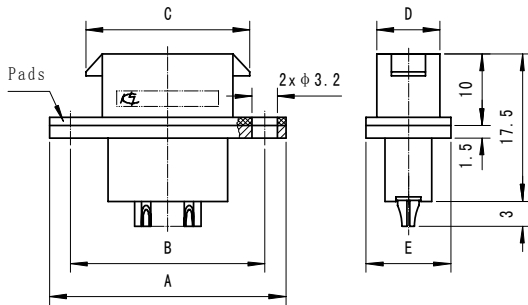


P/N	A	B	C	D	E
R78R-9ZK(J)H	28	23	14.2	5.6	10
R78R-15ZK(J)H	34	29	19.4	5.6	10
R78R-19ZK(J)H	32	27	18.2	8.1	12
R78R-25ZK(J)H	35.4	30.4	21.6	8.1	12
R78R-26ZK(J)H	35.4	30.4	21.6	8.1	12
R78R-37ZK(J)H	42	37	28.2	8.1	12
R78R-38ZK(J)H	42	37	28.2	8.1	12
R78R-51ZK(J)H	51	46	37.2	8.1	12
R78R-52ZK(J)H	51	46	37.2	8.1	12
R78R-74ZK(J)H	53	48	39.2	9.7	14

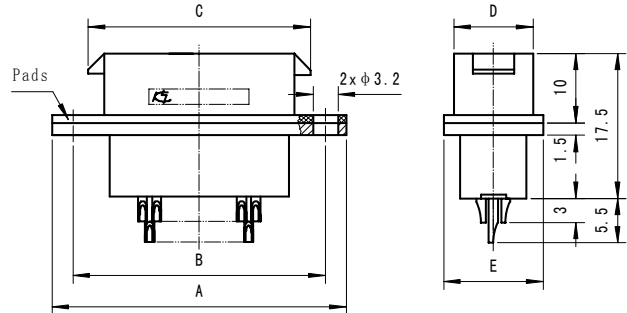
R78R- II -xZK(J)H solder receptacle mounted behind panel



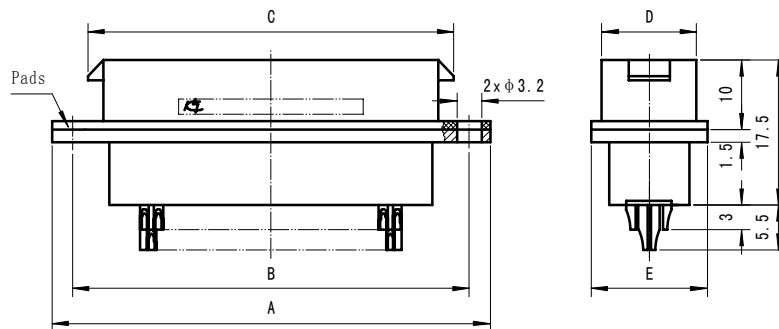
R78R- II -9, 15ZK(J)H



R78R- II -19~52ZK(J)H



R78R II -74ZK(J)H



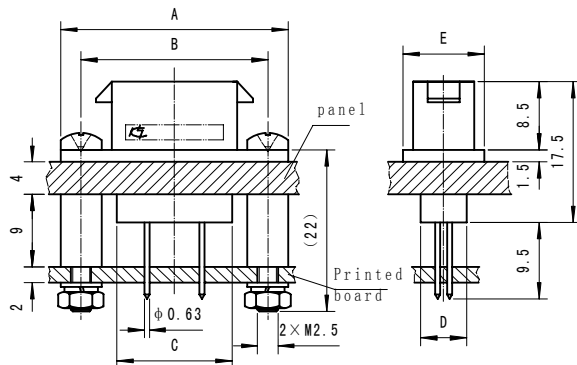
P/N	A	B	C	D	E
R78R II -9ZK(J)H	30.2	25.2	19.3	7.5	11.5
R78R II -15ZK(J)H	36.2	31.2	25.3	8.9	12
R78R II -19ZK(J)H	34.2	29.2	23.3	9.8	14
R78R II -25ZK(J)H	37.5	32.5	26.7	9.8	14
R78R II -26ZK(J)H	37.5	32.5	26.7	9.8	14
R78R II -37ZK(J)H	44	39	33.3	9.8	14
R78R II -38ZK(J)H	44	39	33.3	9.8	14
R78R II -51ZK(J)H	53	48	42.3	9.8	14
R78R II -52ZK(J)H	53	48	42.3	9.8	14
R78R II -74ZK(J)H	55	50	44.3	11.8	16

PCB receptacle

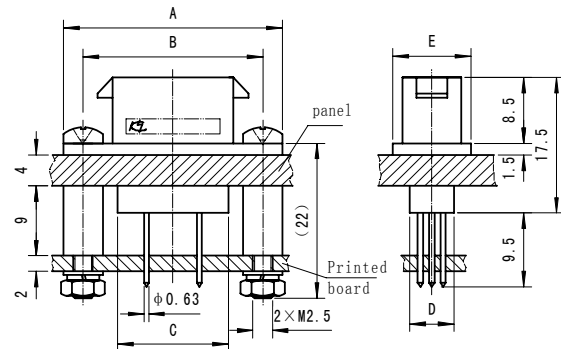
- R78R-×ZK(J)N straight PCB receptacle



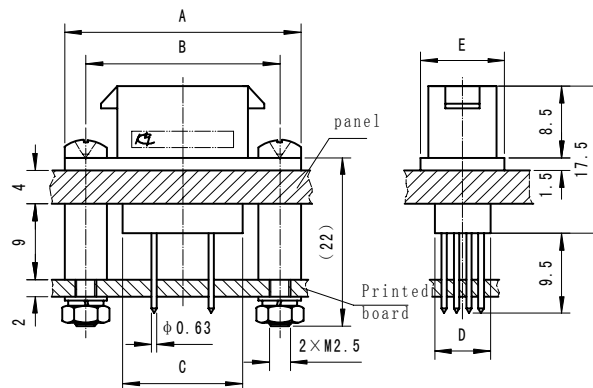
R78R-9, 15ZK(J)N



R78R-19~52ZK(J)N

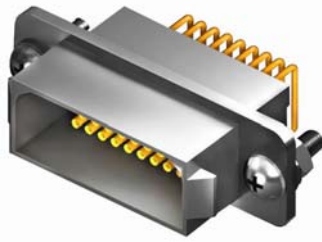


R78R-74ZK(J)N

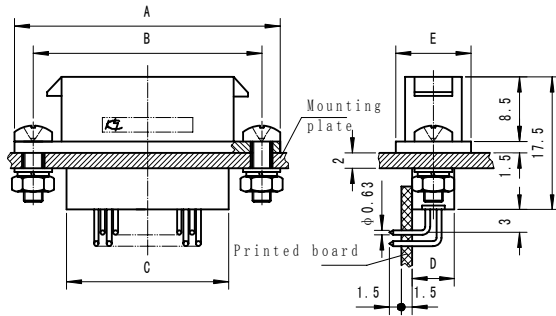


P/N	A	B	C	D	E
R78R-9ZK(J)N	28	23	14.2	5.6	10
R78R-15ZK(J)N	34	29	19.4	5.6	10
R78R-19ZK(J)N	32	27	18.2	8.1	12
R78R-25ZK(J)N	35.4	30.4	21.6	8.1	12
R78R-26ZK(J)N	35.4	30.4	21.6	8.1	12
R78R-37ZK(J)N	42	37	28.2	8.1	12
R78R-38ZK(J)N	42	37	28.2	8.1	12
R78R-51ZK(J)N	51	46	37.2	8.1	12
R78R-52ZK(J)N	51	46	37.2	8.1	12
R78R-74ZK(J)N	53	48	39.2	9.7	14

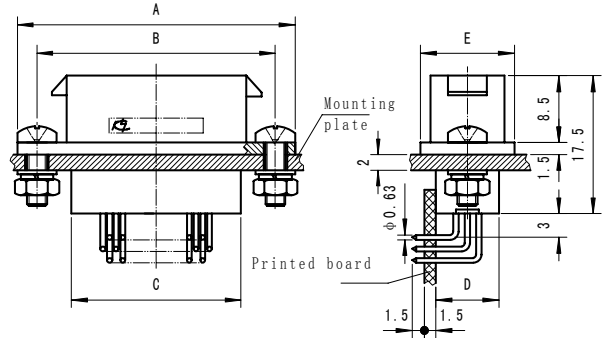
●R78R-×ZK(J)W right angle PCB receptacle



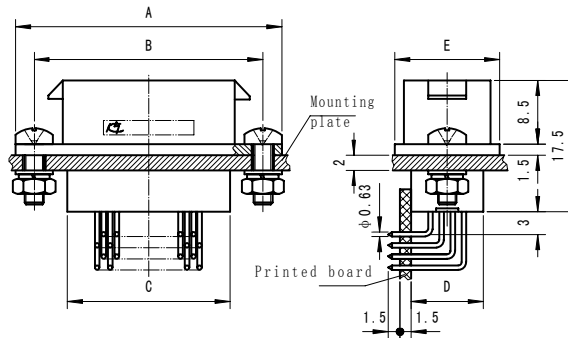
R78R-9、15ZK(J)W



R78R-19~52ZK(J)W



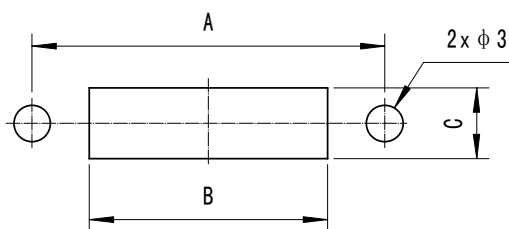
R78R-74ZK(J)W



P/N	A	B	C	D	E
R78R-9ZK(J)W	28	23	14.2	5.6	10
R78R-15ZK(J)W	34	29	19.4	5.6	10
R78R-19ZK(J)W	32	27	18.2	8.1	12
R78R-25ZK(J)W	35.4	30.4	21.6	8.1	12
R78R-26ZK(J)W	35.4	30.4	21.6	8.1	12
R78R-37ZK(J)W	42	37	28.2	8.1	12
R78R-38ZK(J)W	42	37	28.2	8.1	12
R78R-51ZK(J)W	51	46	37.2	8.1	12
R78R-52ZK(J)W	51	46	37.2	8.1	12
R78R-74ZK(J)W	53	48	39.2	9.7	14

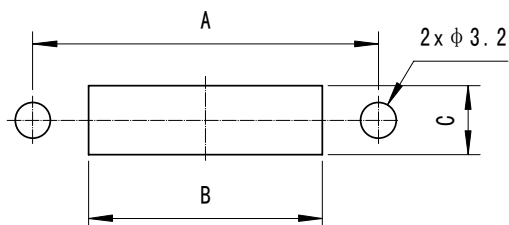
Recommended panel mounting cutout dimensions

Mounting cutout dimensions before panel



Number of contacts	A	B	C
9	23	14.4	5.8
15	29	19.6	5.8
19	27	18.4	8.3
25	30.4	21.8	8.3
26	30.4	21.8	8.3
37	37	28.4	8.3
38	37	28.4	8.3
51	46	37.4	8.3
52	46	37.4	8.3
74	48	39.4	9.9

Mounting cutout dimensions behind panel



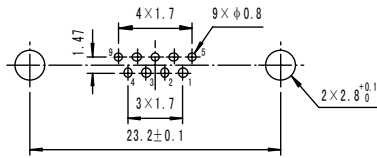
Number of contacts	A	B	C
9	25.2	19.4	7.8
15	31.2	25.4	9.1
19	29.2	23.4	10
25	32.5	26.8	10
26	32.5	26.8	10
37	39	33.4	10
38	39	33.4	10
51	48	42.4	10
52	48	42.4	10
74	50	44.4	12

Recommended PCB cutout dimensions

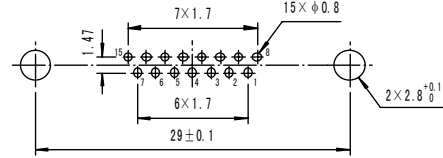
Straight PCB receptacle cutout dimensions (the figure below is R78R- $\times$ ZKN PCB cutout dimensions)

Note: R78R- $\times$ ZJN and R78R- $\times$ ZKN cutout dimensions are identical. Just symmetrize hole numbers by center line.

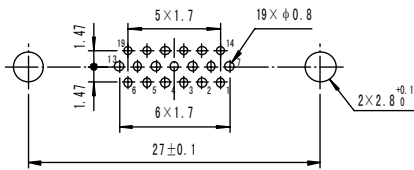
R78R - 9 Z K N



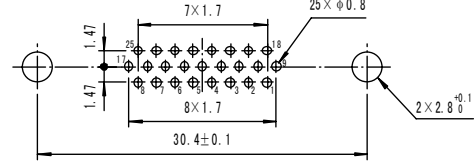
R78R - 15 Z K N



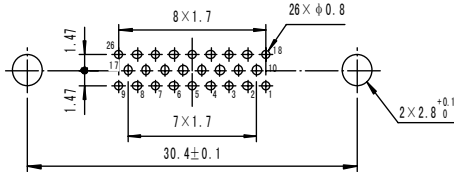
R78R - 19 Z K N



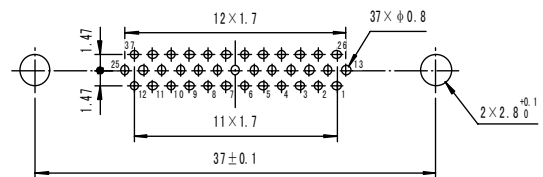
R78R - 25 Z K N



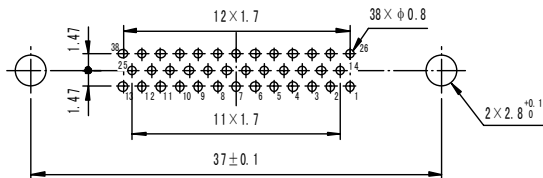
R78R - 26 Z K N



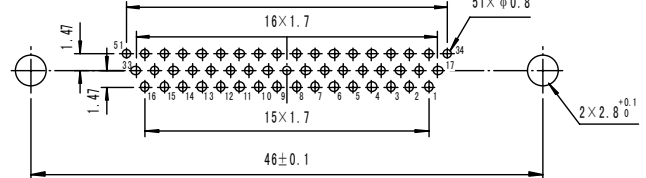
R78R - 37 Z K N



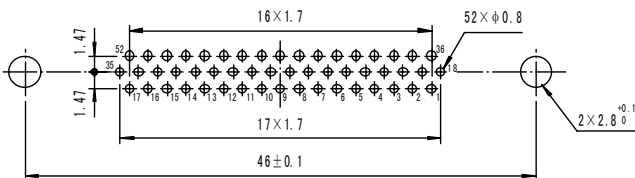
R78R - 38 Z K N



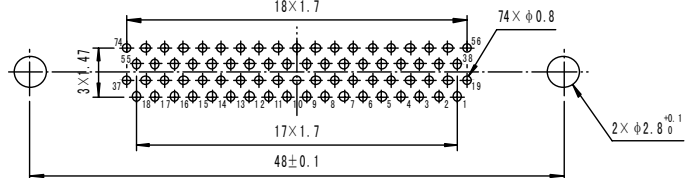
R78R - 51 Z K N



R78R - 52 Z K N



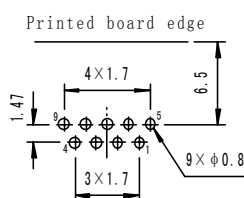
R78R - 74 Z K N



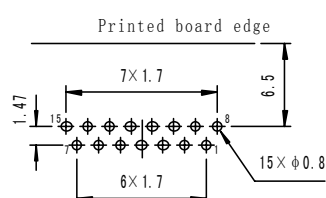
Right angle PCB receptacle cutout dimensions (the figure below is R78R- $\times$ ZKW PCB cutout dimensions)

Note: R78R- $\times$ ZJW and R78R- $\times$ ZKW cutout dimensions are identical. Just symmetries hole numbers by center line.

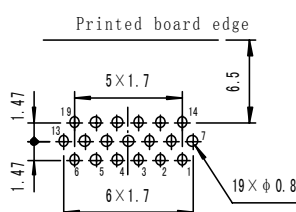
R78R-9ZKW



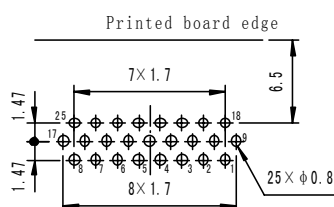
R78R-15ZKW



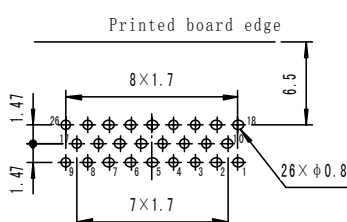
R78R-19ZKW



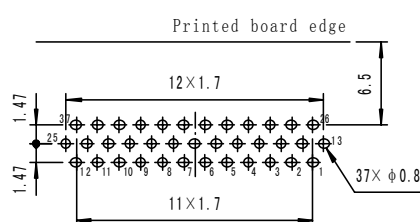
R78R-25ZKW



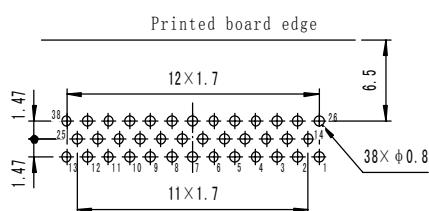
R78R-26ZKW



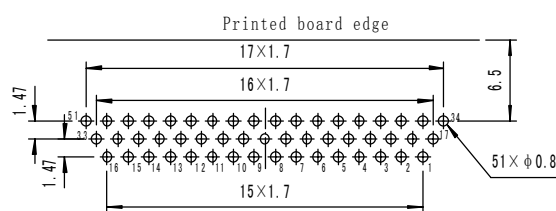
R78R-37ZKW



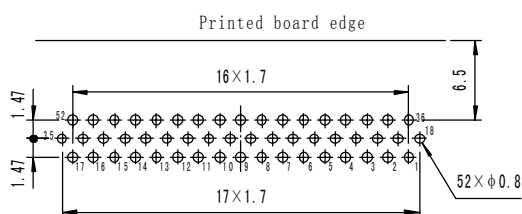
R78R-38ZKW



R78R-51ZKW



R78R-52ZKW



R78R-74ZKW

