# **Electronic Components**

**Master Selection Guide** 





## Connectors - FPC (Flexible Printed Circuit)

	Mannanan Ma	5	non-		
	XF2G	XF2U	XF2J	XF2L	
Pitch mm	0.3mm	0.5mm	0.5mm	0.5mm	
Insertion type	non-ZIF	ZIF	ZIF	ZIF	
Cable lock type	Rear rotary lock	Rear rotary lock	Slide Lock	Slide Lock	
PCB mounting	SMT	SMT	SMT	SMT	
Cable insertion	Horizontal	Horizontal	Vertical	Horizontal	
Contact type(s)	Тор	Double sided	Vertical	Top & Bottom	
Dimensions mm (in)	9.1W x 3.8D x 0.9H (0.4 x 0.15 x 0.04) for 29 circuits	12.6W x 3.5D x 0.9H (0.5 x 0.14 x 0.04) for 24 circuits	19.5 W x 3.4 D x 4.15 H (0.77 x 0.13 x 0.16) for 30 circuits	18.9 W x 3.5 D x 1.2 H (0.74 x 0.14 x 0.05) for 30 circuits	
Available circuits	17, 21, 25, 29, 35, 39, & 51	4, 11, 14, 20, 24, 27, 30, 32, & 40	6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30	4, 5, 6, 7, 8, 10, 12, 13, 15, 18, 19, 20, 21, 22, 24, 26, 30	
Packaging	Tape & reel	Tape & reel	Tape & reel	Tape & reel	
Features	Low 4.15mm on-board profile     Applicable FPC thickness of     t=0.3mm     Top-entry     Upper contacts     Wide molding wall on bottom allows greater board design freedom	Low on-board profile of 0.9mm     Ultra-slim with 3.5mm depth     Wide molding wall on bottom allows greater board design freedom	Low profile, top entry     0.3mm FPC thickness	Low profile, small size     0.3mm FPC thickness	
Specifications Rated current	0.2A	0.5A	0.5A	0.5A	
Rated voltage	50VDC	50VDC	50VDC	50VDC	
Contact resistance (@ 20mV, 100mA)	80mΩ max.	60mΩ max.	30mΩ max.	30mΩ max.	
Insulation resistance (min.)	100MΩ @ 250VAC	100MΩ @ 250VAC	100MΩ @ 250VDC	100MΩ @ 250VDC	
Withstand voltage	250VAC 1 min. (leakage current: 1mA max.)	250VAC 1 min. (leakage current: 1mA max.)	250VAC 1min. (leakage current: 1mA max.)	250VAC 1min. (leakage current: 1mA max.)	
Circuit insertion or service life	10 times	20 times	20 times	20 times	
Ambient operating temperature	−30°C to + 85°C	-30°C to + 85°C	-30°C to + 85°C	-30°C to + 85°C	

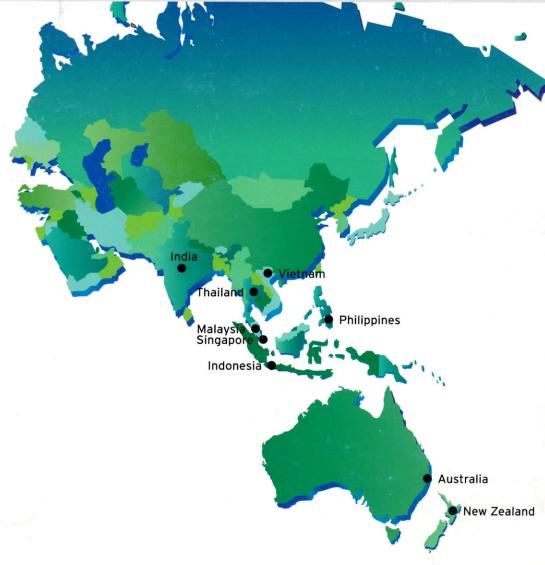
#### Connectors - FPC (Flexible Printed Circuit)

	The state of the s		The state of the s	
	XF2M	XF2R	XF2B	
Pitch mm	0.5mm	0.5mm	0.3mm	
Insertion type	ZIF	ZIF	ZIF	
Cable lock type	Rear rotary lock	Rear rotary lock	Rear rotary lock	All her
PCB mounting	SMT	SMT	SMT	
Cable insertion	Horizontal	Horizontal	Horizontal	
Contact type(s)	Double Sided	Double Sided	Double Sided	W 34.348
Dimensions mm (in)	18.5 W x 4.9 D x 2.0 H (0.73 x 0.19 x 0.08) for 30 circuits	19 W x 4.95 D x 0.9 H (0.75 x 0.18 x 0.04) for 34 circuits	8.8 W x 5.2 D x 1.2 H (0.35 x 0.2 x 0.05) for 23 circuits	
Available circuits	10, 12, 14,18, 20, 22, 24, 26, 30, 32, 33, 34, 35, 36, 38, 40, 42, 45, 50	6, 9, 18, 24, 34, 40	17, 21, 23, 25, 27, 31, 33, 35, 39, 41, 45, & 51	
Packaging	Tape & reel	Tape & reel	Tape & reel	
Features	Low profile (2mm H)     Short body     0.3mm FPC thickness	Low profile (0.9mm H)     0.12mm FPC thickness	Low profile (1.2mm H)     Ultra-fine pitch     0.2mm FPC thickness	
Specifications Rated current	0.2A	0.3A	0.2A	
Rated voltage	50VDC	50VDC	50VDC	
Contact resistance (@ 20mV, 100mA)	50mΩ max.	40mΩ max.	50mΩ max.	
Insulation resistance (min.)	100MΩ @ 250VDC	100MΩ @ 250VDC	100MΩ @ 250VDC	
Withstand voltage	250VAC 1min. (leakage current: 1mA max.)	250 VAC 1min. (leakage current: 1mA max.)	250VAC 1min. (leakage current: 1mA max.)	
Circuit insertion or service life	20 times	20 times	20 times	
Ambient operating temperature	-30°C to +85°C	-30°C to +85°C	-30°C to +85°C	
				1000

### Connectors FFC (Flat Flexible Cable)

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	XG4U	XG4M	XG4A	XG4E	XG4C	
Description	Strain relief	MIL-type socket	MIL-type socket	IDC plug	Box type plug	
Pitch mm	2.54	2.54	2.54	2.54	2.54	
Socket / Plug	Socket	Socket	Plug	Plug	Plug	
Plating on contacts	Au plating	Au plating	Au plating	Au plating	Au plating	
PCB mounting	Thru-hole	Thru-hole	Thru-hole	Thru-hole	Thru-hole	
Cable insertion	Vertical or horizontal	Vertical or horizontal	Vertical or horizontal	Vertical or horizontal	Vertical or horizontal	
Contact type(s)	IDC flat ribbon cable	IDC flat ribbon cable	IDC flat ribbon cable	IDC flat ribbon cable	IDC flat ribbon cable	
Dimensions mm (in)	Please consult product specifications for more information	Please consult product specifications for more information	Please consult product specifications for more information	Please consult product specifications for more information	Please consult product specifications for more information	
Available circuits	10, 14, 16, 20, 26, 30, 34, 40, 50, 60, 64	10, 14, 16, 20, 26, 30, 34, 40, 50, 60, 64	10, 14, 16, 20, 26, 30, 34, 40, 50, 60, 64	10, 14, 16, 20, 26, 30, 34, 40, 50, 60, 64	10, 14, 16, 20, 26, 30, 34, 40, 50, 60, 64	
Packaging	Bag	Bag	Bag	Bag	Bag	
Features	Can connect & disconnect with one hand Save board space Reduced mounting height High-reliability, low cost	Can connect & disconnect with one hand Save board space Reduced mounting height High-reliability, low cost	Can connect & disconnect with one hand Save board space Reduced mounting height High-reliability, low cost Available in short lock, long lock and dual port models	Solderless plug     Can connect & disconnect with one hand     Save board space     Reduced mounting height     High-reliability, low cost	<ul> <li>Available in straight DIP &amp; right-angle DIP terminals</li> <li>Can connect &amp; disconnect with one hand</li> <li>Save board space</li> <li>Reduced mounting height</li> <li>High-reliability, low cost</li> </ul>	
Specifications Rated current	1A	1A	1A	1A	1A	
Rated voltage	250VAC	250VAC	250VAC	250VAC	250VAC	
Contact resistance	20mΩ max.	20mΩ max.	20mΩ max.	20mΩ max.	20mΩ max.	
Insulation resistance	100MΩ @ 500VDC	100MΩ @ 500VDC	100MΩ @ 500VDC	100MΩ @ 500VDC	100MΩ @ 500VDC	
Withstand voltage (leakage current: 1mA max.)	500VAC for 1 minute	500VAC for 1 minute	500VAC for 1 minute	500VAC for 1 minute	500VAC for 1 minute	
Circuit insertion or service life	50 times	50 times	50 times	50 times	50 times	
Ambient operating temperature	-55°C to +105°C	-55°C to +105°C	-55°C to +105°C	-55°C to +105°C	-55°C to +105°C	

#### Omron Electronic Components: The Quality, Flexibility and Global Support You Need

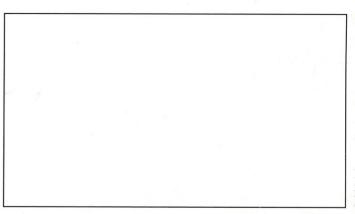


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