

WB3 Series 0.5mm Connectors



Feature:
Conforming to PCI Express Card Electrical Mechanical Specification

Specifications:

- Operating Temperature: -40°C – 85°C • Rated Current: 0.5A (per pin) • Contact Resistance: 50mΩ max. (initial), 60mΩ maximum (after various tests) • Dielectric Withstanding Voltage: 500 VACr.m.s per minute
- Insulation Resistance: 100MΩ minimum

Materials and Finishes:

- Contact: Copper Alloy/Contact: 0.76um min. Gold plating over Nickel, Terminal: Gold flash plating over Nickel
- Insulator: Thermoplastic resin UL 94V-0 black
- Shell: Receptacle/Copper Alloy: Tin plating, Plug/Stainless steel: Tin plating

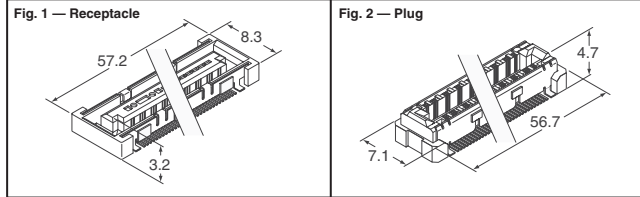


Fig.	No. of Positions	Digi-Key Part No.	Price Each			JAE Part No.
			1	25	100	
1	200	670-1164-ND	5.08	3.46	3.05	WB3F200VD1T
2		670-1166-ND	7.26	4.65	4.36	WB3M200VD1T

WM2 Series 0.5mm Connectors



Features:
• Compatible to SATA and USB 2.0 transmission • With shell compatible to EMI. The shells (ground portion) will connect first when mating.

Specifications:

- Contact Resistance: 50mΩ maximum • Dielectric Withstanding Voltage: AC250 per minute • Operating Temperature: -40°C – 85°C • Rated Current: 0.5A/per pin

Materials and Finishes:

Receptacle/Plug: • Contact: Copper Alloy • Insulator: Glass filled LCP • Stainless Steel Shell

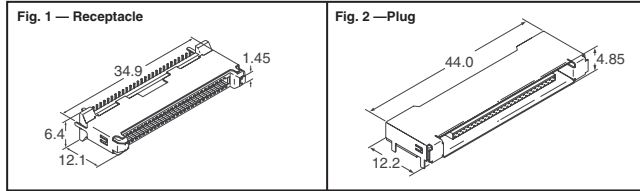


Fig.	No. of Positions	Digi-Key Part No.	Cut Tape Price Each			Tape & Reel Pricing†	JAE Part No.
			1	25	100		
1	54	670-1167-1-ND	3.93	2.23	2.10	549.41/300	WM2F054WPARG300
2		670-1168-1-ND	4.89	3.33	2.94	1642.66/600	WM2M054JPARG600

† For Tape and Reel Part Number, change 1-ND to 2-ND.

KX14 and KX15 Series 0.8mm Connectors



Specifications:
• Contact Spacing: 0.8mm • Current Rating: 0.5 Amps • Dielectric Withstanding Voltage: 500 VACr.m.s per minute • Insulation Resistance: 100MΩ minimum • Contact Resistance: 70mΩ maximum • Operating Temperature: -40°C – 85°C

Materials and Finishes:

- Insulator: KX14: Glass-filled LCP/Black, KX15 Straight: Glass-filled PPS/Black, KX15 Right Angle: Glass-filled LCP/Black
- Contact: Copper Alloy, Connecting Area: 0.1µm min. Gold Plating over Nickel, Terminal Area: Gold flash over Nickel or Tin-lead over Nickel
- Hold Down: Copper Alloy/Tin-lead over Nickel
- Hook Pin: Copper Alloy/Tin Plating • Hexagon Nut: Brass/Nickel Plating

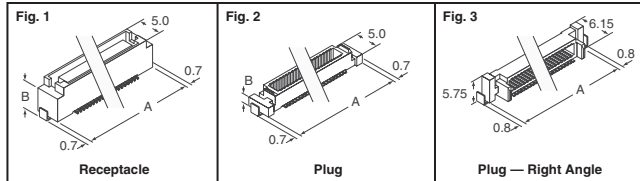


Fig.	No. of Positions	Dimensions (mm)		Digi-Key Part No.	Price Each			JAE Part No.
		A	B		1	25	100	
KX14 Series								
1	20	16	1.95	670-1243-ND	2.08	1.20	1.02	KX14-20K2DE
			4.95	670-1244-ND	2.16	1.24	1.05	KX14-20K5DE
			7.95	670-1245-ND	2.16	1.24	1.05	KX14-20K8DE
			10.95	670-1241-ND	2.08	1.20	1.02	KX14-20K11DE

Fig.	No. of Positions	Dimensions (mm)		Digi-Key Part No.	Price Each			JAE Part No.
		A	B		1	25	100	
1	30	20	1.95	670-1247-ND	2.52	1.44	1.23	KX14-30K2DE
			4.95	670-1248-ND	2.57	1.47	1.25	KX14-30K5DE
			7.95	670-1249-ND	2.44	1.47	1.31	KX14-30K8DE
	40	24	1.95	670-1251-ND	2.68	1.61	1.43	KX14-40K2D-RE
			4.95	670-1253-ND	2.74	1.61	1.47	KX14-40K5D-RE
			7.95	670-1254-ND	3.03	1.77	1.62	KX14-40K8DE
			10.95	670-1250-ND	3.11	1.82	1.67	KX14-40K11DE
	50	28	1.95	670-1257-ND	3.25	1.90	1.74	KX14-50K2D-RE
			4.95	670-1259-ND	5.30	3.61	3.18	KX14-50K5D-RE
			7.95	670-1261-ND	3.62	2.11	1.93	KX14-50K8DE
			10.95	670-1256-ND	3.31	1.94	1.77	KX14-50K11DE
	60	32	1.95	670-1269-ND	4.14	2.42	2.21	KX14-60K2FR
4.95			670-1270-ND	4.01	2.34	2.14	KX14-60K5DE	
10.95			670-1267-ND	3.83	2.24	2.05	KX14-60K11DE	
13.95			670-1268-ND	4.25	2.48	2.27	KX14-60K14DE	
1.95			670-1273-ND	4.75	2.70	2.54	KX14-70K2DE	
70	36	4.95	670-1274-ND	4.36	2.55	2.33	KX14-70K5DE	
		7.95	670-1275-ND	4.36	2.55	2.33	KX14-70K8DE	
		13.95	670-1272-ND	4.33	2.53	2.32	KX14-70K14DE	
		1.95	670-1278-ND	5.34	3.03	2.85	KX14-80K2DE	
80	40	1.95	670-1283-ND	5.01	2.84	2.68	KX14-80N2DE	
		4.95	670-1280-ND	5.40	3.07	2.89	KX14-80K5DE	
		7.95	670-1281-ND	5.40	3.07	2.89	KX14-80K8DE	
		1.95	670-1228-ND	4.68	3.19	2.81	KX14-100K2DE	
100	48	4.95	670-1229-ND	4.99	3.40	3.00	KX14-100K5DE	
		4.95	670-1232-ND	4.74	3.23	2.85	KX14-100N5DE	
		10.95	670-1226-ND	4.94	3.36	2.97	KX14-100K11DE	
		1.95	670-1233-ND	5.84	3.98	3.51	KX14-120K2DE	
120	56	4.95	670-1235-ND	5.58	3.79	3.35	KX14-120K5DE	
		1.95	670-1237-ND	6.75	4.60	4.06	KX14-140K2DE	
140	64	4.95	670-1238-ND	6.77	4.61	4.07	KX14-140K5DE	
		4.95	670-1239-ND	7.37	4.72	4.43	KX14-160K5DE	
			4.95	670-1240-ND	7.37	4.72	4.43	KX14-160N5DE
KX15 Series								
2	20	16	1.95	670-1302-ND	2.08	1.20	1.02	KX15-20K2DE
			2.95	670-1303-ND	1.91	1.09	.93	KX15-20K3DE
			3.95	670-1305-ND	2.16	1.24	1.05	KX15-20K4DE
	30	20	1.95	670-1308-ND	2.52	1.44	1.23	KX15-30K2DE
			3.95	670-1310-ND	2.44	1.47	1.31	KX15-30K4DE
	40	24	1.95	670-1313-ND	2.68	1.61	1.43	KX15-40K2D-RE
			2.95	670-1315-ND	3.03	1.77	1.62	KX15-40K3DE
			7.95	670-1318-ND	5.51	3.13	2.94	KX15-40K8DE
	50	28	1.95	670-1323-ND	3.55	2.08	1.90	KX15-50K2DE
			2.95	670-1325-ND	3.62	2.11	1.93	KX15-50K3DE
			3.95	670-1326-ND	5.40	3.07	2.89	KX15-50K4DE
			1.95	670-1332-ND	4.14	2.42	2.21	KX15-60K2DE
60	32	2.95	670-1333-ND	4.23	2.47	2.26	KX15-60K3DE	
		3.95	670-1334-ND	4.23	2.47	2.26	KX15-60K4DE	
		1.95	670-1336-ND	4.75	2.70	2.54	KX15-70K2DE	
70	36	2.95	670-1337-ND	4.81	2.73	2.57	KX15-70K3DE	
		3.95	670-1338-ND	4.81	2.73	2.57	KX15-70K4DE	
		1.95	670-1344-ND	5.34	3.03	2.85	KX15-80K2DE	
80	40	1.95	670-1352-ND	5.07	2.88	2.71	KX15-80N2DE	
		2.95	670-1346-ND	5.40	3.07	2.89	KX15-80K3DE	
		3.95	670-1348-ND	5.40	3.07	2.89	KX15-80K4DE	
100	48	1.95	670-1284-ND	5.43	3.70	3.26	KX15-100K2DE	
		2.95	670-1285-ND	5.21	3.55	3.13	KX15-100K3DE	
		3.95	670-1286-ND	5.21	3.55	3.13	KX15-100K4DE	
		3.95	670-1287-ND	5.21	3.55	3.13	KX15-100N4DE	
120	56	1.95	670-1290-ND	5.26	3.58	3.16	KX15-120K2DE	
		2.95	670-1291-ND	5.30	3.61	3.18	KX15-120K3DE	
		3.95	670-1293-ND	5.30	3.61	3.18	KX15-120K4DE	
140	64	1.95	670-1294-ND	6.05	4.11	3.63	KX15-140K2DE	
		2.95	670-1295-ND	6.39	4.35	3.84	KX15-140K3DE	
		3.95	670-1296-ND	5.52	3.76	3.32	KX15-140K4DE	
160	72	2.95	670-1299-ND	6.90	4.69	4.14	KX15-160K3DE	
		—	670-1306-ND	4.14	2.42	2.21	KX15-20KLDLE	
		—	670-1311-ND	2.35	1.42	1.26	KX15-30KLDLE	
3	40	24	—	670-1319-ND	2.98	1.75	1.60	KX15-40KLDLE
			—	670-1329-ND	3.57	2.09	1.91	KX15-50KLDLE
			—	670-1330-ND	3.57	2.09	1.91	KX15-50KLDLE
	60	32	—	670-1335-ND	4.20	2.46	2.25	KX15-60KLDLE
			—	670-1339-ND	4.79	2.72	2.56	KX15-70KLDLE
			—	670-1340-ND	4.79	2.72	2.56	KX15-70KLDLE
	80	48	—	670-1351-ND	5.42	3.08	2.90	KX15-80KLDLE
			—	670-1354-ND	5.40	3.07	2.89	KX15-80NLDLE
	140	72.5	—	670-1298-ND	7.59	4.86	4.56	KX15-140KLDLE
			—	670-1301-ND	8.60	5.51	5.17	KX15-160NLDLE

∅ Without hold down

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