

# JST JMD Series 0.5mm Connectors



**Features:** • Smooth connection: The bellows type contacts, mating is very smooth • Distortion Prevention Construction: Box shaped plug housing has guide ribs on both ends which prevents distortion • Wide Range of Circuits: Number of circuits available are: 20 to 100, every 10 circuits  
**Specifications:** • Current Rating: 0.5A AC/DC • Voltage Rating: 50V AC/DC • Temperature Range: -25°C - 85°C • Withstanding Voltage: 100V AC/minute • Contacts: Gold Plated

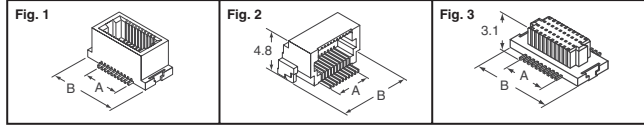


Fig.	Circuits	Dim. (mm)		Digi-Key Part No.	Cut Tape Pricing			Tape and Reel Pricing 1,500	JST Part No.
		A	B		1	10	100		
<b>Top Entry Plug</b>									
<b>4.5mm Stacking Height</b>									
1	20	4.5	9.1	455-1874-1-ND	1.44	13.22	110.20	731.72/M	20P-JMDSS-G-1-TF(S)(LF)(SN)
	40	9.5	14.1	455-1875-1-ND	1.75	16.19	134.95	896.04/M	40P-JMDSS-G-1-TF(S)(LF)(SN)
	50	12.0	16.6	455-1876-1-ND	2.09	19.25	160.36	1064.79/M	50P-JMDSS-G-1-TF(S)(LF)(SN)
	60	14.5	19.1	455-1877-1-ND	2.79	25.80	214.95	1427.28/M	60P-JMDSS-G-1-TF(LF)(SN)
	70	17.0	21.6	455-1878-1-ND	3.09	28.47	237.21	1575.08/M	70P-JMDSS-G-1-TF(LF)(SN)
	80	19.5	24.1	455-1879-1-ND	3.66	33.80	281.68	1870.35/M	80P-JMDSS-G-1-TF(LF)(SN)
100	24.5	29.1	455-1880-1-ND	4.42	40.76	339.68	2255.45/M	100P-JMDSS-G-1-TF(LF)(SN)	
<b>5.0mm Stacking Height</b>									
1	30	7.0	11.6	455-1881-1-ND	1.66	15.33	127.71	847.98/M	30P5.0-JMDSS-G-1-TF(LF)(SN)
<b>6.0mm Stacking Height</b>									
1	50	12.0	16.6	455-1883-1-ND	2.44	22.44	186.99	1241.58/M	50P6.0-JMDSS-G-1-TF(LF)(SN)
	60	14.5	19.1	455-1884-1-ND	2.95	27.20	226.67	1505.08/M	60P6.0-JMDSS-G-1-TF(S)(LF)(SN)
	70	17.0	21.6	455-1885-1-ND	3.27	30.11	250.86	1665.68/M	70P6.0-JMDSS-G-1-TF(LF)(SN)
<b>Side Entry Plug</b>									
2	20	4.5	9.1	455-1886-1-ND	1.19	10.96	91.39	606.82/M	20PS-JMDSS-G-1-TF(LF)(SN)
	30	7.0	11.6	455-1887-1-ND	1.48	13.67	113.93	756.52/M	30PS-JMDSS-G-1-TF(LF)(SN)
	40	9.5	14.1	455-1888-1-ND	1.93	17.82	148.46	985.77/M	40PS-JMDSS-G-1-TF(LF)(SN)
	50	12.0	16.6	455-1889-1-ND	2.39	22.07	183.99	1221.68/M	50PS-JMDSS-G-1-TF(LF)(SN)
	60	14.5	19.1	455-1890-1-ND	2.66	24.53	204.41	1357.32/M	60PS-JMDSS-G-1-TF(LF)(SN)
	70	17.0	21.6	455-1891-1-ND	3.10	28.56	238.03	1580.50/M	70PS-JMDSS-G-1-TF(LF)(SN)
80	19.5	24.1	455-1892-1-ND	4.41	40.73	339.46	2254.05/M	80PS-JMDSS-G-1-TF(LF)(SN)	
100	24.5	29.1	455-1893-1-ND	5.89	54.39	453.31	3009.93/M	100PS-JMDSS-G-1-TF(LF)(SN)	
<b>Receptacle</b>									
3	20	4.5	9.1	455-1894-1-ND	1.69	15.60	129.95	862.81/M	20R-JMDSS-G-1-TF(S)(LF)(SN)
	30	7.0	11.6	455-1895-1-ND	1.86	17.19	143.31	951.55/M	30R-JMDSS-G-1-TF(S)(LF)(SN)
	40	9.5	14.1	455-1896-1-ND	2.35	21.61	180.14	1196.10/M	40R-JMDSS-G-1-TF(S)(LF)(SN)
	50	12.0	16.6	455-1897-1-ND	2.79	25.75	214.64	1425.14/M	50R-JMDSS-G-1-TF(S)(LF)(SN)
	60	14.5	19.1	455-1898-1-ND	3.11	28.68	239.01	1586.98/M	60R-JMDSS-G-1-TF(S)(LF)(SN)
	70	17.0	21.6	455-1899-1-ND	3.42	31.60	263.35	1748.60/M	70R-JMDSS-G-1-TF(S)(LF)(SN)
80	19.5	24.1	455-1900-1-ND	3.55	32.74	272.84	1811.69/M	80R-JMDSS-G-1-TF(LF)(SN)	
100	24.5	29.1	455-1901-1-ND	4.88	45.03	375.25	2491.68/M	100R-JMDSS-G-1-TF(LF)(SN)	

† For Tape and Reel part number, change 1-ND to 2-ND.

# SUR Series 0.8mm IDC Connectors



**Features:** • 3 point grip construction • Super fine wires for ease in routing  
**Specifications:** • Shrouded header • Twin U-slot insulation displacement section  
**Specifications:** • Current Ratings: 0.5A AC/DC (32 AWG) • Voltage Rating: 30V DC • Temperature Range: -25°C - 85°C • Applicable Wire: 32, 36 AWG

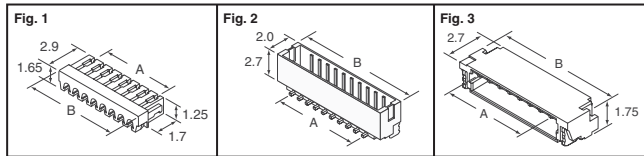


Fig.	Circuits	Dimensions (mm)		Digi-Key Part No.	Pricing			JST Part No.
		A	B		1	10	100	
<b>Housing</b>								
1	2	0.8	2.4	455-2176-ND	.56	5.21	43.44	02SR-32S
	8	5.6	7.2	455-2177-ND	1.26	11.61	96.74	08SR-32S
	12	8.8	10.4	455-2178-ND	1.59	14.72	122.66	12SR-32S
	14	10.4	12.0	455-2179-ND	1.82	16.78	139.83	14SR-32S
	15	11.2	12.8	455-2180-ND	1.89	17.37	144.77	15SR-32S
	16	12.0	13.6	455-2181-ND	1.99	18.30	152.50	16SR-32S
20	15.2	16.8	455-2182-ND	2.21	20.45	170.38	20SR-32S	

Fig.	Circuit	Dim. (mm)		Digi-Key Part No.	Cut Tape Pricing			Tape and Reel Qty.	Tape and Reel Pricing	JST Part No.
		A	B		1	10	100			
<b>Heads</b>										
<b>Top Entry (Shrouded)</b>										
2	20	15.2	18.2	455-2030-1-ND	1.83	16.84	140.36	2,500	932.01/M	BM20B-SURS-TF(LF)(SN)
<b>Side Entry (Shrouded)</b>										
3	2	0.8	3.8	455-2039-1-ND	.64	5.93	49.38	3,500	327.87/M	SM02B-SURS-TF(LF)(SN)
	8	5.6	8.6	455-2040-1-ND	1.26	11.63	96.84	3,500	643.00/M	SM08B-SURS-TF(LF)(SN)
	10	7.2	10.2	455-2041-1-ND	1.37	12.65	105.39	3,500	699.80/M	SM10B-SURS-TF(LF)(SN)
	15	11.2	14.2	455-2042-1-ND	1.80	16.59	138.24	3,500	917.87/M	SM15B-SURS-TF(LF)(SN)
	16	12.0	15.0	455-2043-1-ND	2.05	18.94	157.88	3,500	1048.32/M	SM16B-SURS-TF(LF)(SN)

† For Tape and Reel part number, change 1-ND to 2-ND.

# SH and SR Series 1.0mm Connectors



**SH Series Features:** • The World's First 1.0mm (.039") Pitch Crimp Style Connector • Ultra Compact, Low Profile Design with a mounting height of 2.95mm (.116") for side entry type Specifications: • Current Rating: 1.0A AC, DC • Voltage Rating: 50V AC, DC • Temperature Range: -25°C - 85°C • Applicable Wire: AWG #32 to #28 • Color: Natural (white)  
**SR Series Features:** • 1.0mm (.039") pitch and 3.0mm (.118") high (side entry type) IDC • Header designed for vacuum pick and place robotics • Twin U-slot insulation displacement section • 3 point grip construction Specifications: • Current Rating: 0.7A DC • Voltage Rating: 50V DC • Temperature Range: -25°C - 85°C • Applicable Wire: 30 AWG

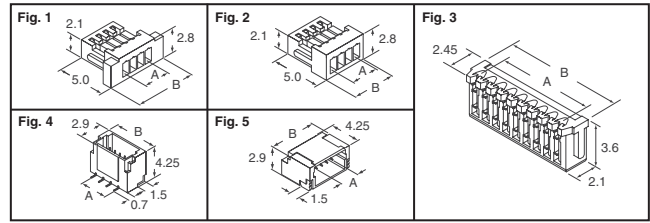


Fig.	Circuits	Dimensions (mm)		Digi-Key Part No.	Pricing			JST Part No.	
		A	B		1	10	100		
<b>Housing</b>									
<b>Crimp With Protrusions</b>									
1	2	1.0	5.0	455-1377-ND	.07	.61	5.02	SHR-02V-S-B	
	3	2.0	6.0	455-1378-ND	.08	.74	6.15	SHR-03V-S-B(P)	
	4	3.0	7.0	455-1379-ND	.09	.86	7.20	SHR-04V-S-B	
	5	4.0	8.0	455-1380-ND	.11	1.01	8.40	SHR-05V-S-B	
	6	5.0	9.0	455-1381-ND	.12	1.11	9.22	SHR-06V-S-B	
	7	6.0	10.0	455-1382-ND	.13	1.25	10.42	SHR-07V-S-B	
	8	7.0	11.0	455-1383-ND	.15	1.37	11.43	SHR-08V-S-B(P)	
	9	8.0	12.0	455-1384-ND	.16	1.49	12.43	SHR-09V-S-B	
	10	9.0	13.0	455-1385-ND	.18	1.62	13.44	SHR-10V-S-B(P)	
	11	10.0	14.0	455-1386-ND	.19	1.74	14.45	SHR-11V-S-B	
	12	11.0	15.0	455-1387-ND	.20	1.85	15.46	SHR-12V-S-B	
	13	12.0	16.0	455-1388-ND	.21	1.98	16.46	SHR-13V-S-B	
	14	13.0	17.0	455-1389-ND	.22	2.10	17.47	SHR-14V-S-B	
	15	14.0	18.0	455-1390-ND	.24	2.22	18.48	SHR-15V-S-B	
20	19.0	23.0	455-1391-ND	.30	2.82	23.52	SHR-20V-S-B		
<b>Crimp Without Protrusions</b>									
2	2	1.0	3.0	455-1392-ND	.07	.61	5.02	SHR-02V-S	
	3	2.0	4.0	455-1393-ND	.08	.74	6.15	SHR-03V-S(P)	
	4	3.0	5.0	455-1394-ND	.09	.86	7.20	SHR-04V-S	
	5	4.0	6.0	455-1395-ND	.11	1.01	8.40	SHR-05V-S	
	6	5.0	7.0	455-1396-ND	.12	1.11	9.22	SHR-06V-S	
	7	6.0	8.0	455-1397-ND	.13	1.25	10.42	SHR-07V-S	
	8	7.0	9.0	455-1398-ND	.15	1.37	11.43	SHR-08V-S	
	9	8.0	10.0	455-1399-ND	.16	1.49	12.43	SHR-09V-S	
	10	9.0	11.0	455-1400-ND	.18	1.62	13.44	SHR-10V-S	
	11	10.0	12.0	455-1401-ND	.19	1.74	14.45	SHR-11V-S	
	12	11.0	13.0	455-1402-ND	.20	1.85	15.46	SHR-12V-S	
	14	13.0	15.0	455-1404-ND	.22	2.10	17.47	SHR-14V-S	
	<b>IDC Housing</b>								
	3	2	1.0	3.0	455-2183-ND	.25	2.24	18.74	02SR-3S(P)
3		2.0	4.0	455-2184-ND	.29	2.73	22.73	03SR-3S	
4		3.0	5.0	455-2185-ND	.35	3.21	26.73	04SR-3S	
5		4.0	6.0	455-2186-ND	.40	3.71	30.96	05SR-3S	
6		5.0	7.0	455-2187-ND	.45	4.20	34.96	06SR-3S	
7		6.0	8.0	455-2188-ND	.55	5.05	42.07	07SR-3S	
8		7.0	9.0	455-2189-ND	.61	5.54	46.23	08SR-3S	
9		8.0	10.0	455-2190-ND	.65	6.04	50.35	09SR-3S	
10		9.0	11.0	455-2191-ND	.71	6.52	54.35	10SR-3S	
11		10.0	12.0	455-2192-ND	.76	7.01	58.45	11SR-3S	
12		11.0	13.0	455-2193-ND	1.02	9.38	78.15	12SR-3S	
<b>Crimp Tools</b>									
Head Adapter SR Series					455-2301-ND		1533.86/1	IDHSR20	
Pistol Grip Crimp Tool					455-1372-ND		191.78/1	IDB-12	

Fig.	Circuits	Dim. (mm)		Digi-Key Part No.	Cut Tape Pricing			Tape and Reel Qty.	Tape and Reel Pricing	JST Part No.
		A	B		1	10	100			
<b>Shrouded Header</b>										
<b>Top Entry Type</b>										
4	2	1.0	4.0	455-1788-1-ND	.44	4.03	1,500	222.85/M	BM02B-SRSS-TB(LF)(SN)	
	3	2.0	5.0	455-1789-1-ND	.52	4.74	1,500	261.87/M	BM03B-SRSS-TB(LF)(SN)	
	4	3.0	6.0	455-1790-1-ND	.61	5.55	1,500	307.24/M	BM04B-SRSS-TB(LF)(SN)(P)	
	5	4.0	7.0	455-1791-1-ND	.73	6.73	1,500	372.58/M	BM05B-SRSS-TB(LF)(SN)	
	6	5.0	8.0	455-1792-1-ND	.81	7.41	1,500	410.09/M	BM06B-SRSS-TB(LF)(SN)	
	7	6.0	9.0	455-1793-1-ND	.88	8.10	1,500	448.15/M	BM07B-SRSS-TB(LF)(SN)	
	8	7.0	10.0	455-1794-1-ND	.98	8.90	1,500	496.90/M	BM08B-SRSS-TB(LF)(SN)	
	9	8.0	11.0	455-1795-1-ND	1.04	9.65	1,500	533.97/M	BM09B-SRSS-TB(LF)(SN)	
	10	9.0	12.0	455-1796-1-ND	1.12	10.36	1,500	572.98/M	BM10B-SRSS-TB(LF)(SN)	
	11	10.0	13.0	455-1797-1-ND	1.20	11.06	1,500	612.00/M	BM11B-SRSS-TB(LF)(SN)	
	12	11.0	14.0	455-1798-1-ND	1.26	11.65	1,500	644.26/M	BM12B-SRSS-TB(LF)(SN)	
	13	12.0	15.0	455-1799-1-ND	1.35	12.46	1,500	689.53/M	BM13B-SRSS-TB	