

# 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

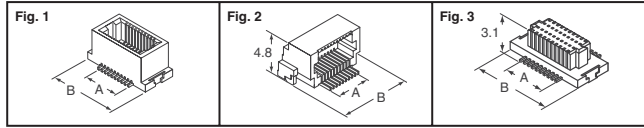


Fig.	Circuits	Dims. - mm		Digi-Key Part No.	Cut Tape Pricing			Tape and Reel Qty.	JST Part No.
		A	B		10	100	500		
<b>Top Entry Plug</b>									
<b>4.5mm Stacking Height</b>									
1	20	4.5	9.1	455-1874-1-ND	8.15	67.90	271.60	450.86/M	20P-JMDSS-G-1-TF(S)(LF)(SN)
	40	9.5	14.1	455-1875-1-ND	9.88	82.36	329.45	546.90/M	40P-JMDSS-G-1-TF(S)(LF)(SN)
	50	12.0	16.6	455-1876-1-ND	11.19	93.21	372.85	618.94/M	50P-JMDSS-G-1-TF(S)(LF)(SN)
	60	14.5	19.1	455-1877-1-ND	14.99	124.95	499.79	829.66/M	60P-JMDSS-G-1-TF(S)(LF)(SN)
	70	17.0	21.6	455-1878-1-ND	16.55	137.89	551.54	915.56/M	70P-JMDSS-G-1-TF(S)(LF)(SN)
1	80	19.5	24.1	455-1879-1-ND	19.65	163.73	654.94	1087.20/M	80P-JMDSS-G-1-TF(S)(LF)(SN)
	100	24.5	29.1	455-1880-1-ND	23.70	197.45	789.79	1311.05/M	100P-JMDSS-G-1-TF(S)(LF)(SN)
	<b>5.0mm Stacking Height</b>								
1	30	7.0	11.6	455-1881-1-ND	9.35	77.94	311.78	517.56/M	30P5.0-JMDSS-G-1-TF(S)(LF)(SN)
	40	9.5	14.1	455-1882-1-ND	11.03	91.93	367.71	610.40/M	40P5.0-JMDSS-G-1-TF(S)(LF)(SN)
<b>6.0mm Stacking Height</b>									
1	50	12.0	16.6	455-1883-1-ND	13.05	108.69	434.77	721.72/M	50P6.0-JMDSS-G-1-TF(S)(LF)(SN)
	60	14.5	19.1	455-1884-1-ND	15.81	131.76	527.03	874.88/M	60P6.0-JMDSS-G-1-TF(S)(LF)(SN)
	70	17.0	21.6	455-1885-1-ND	17.50	145.82	583.28	968.24/M	70P6.0-JMDSS-G-1-TF(S)(LF)(SN)
<b>Side Entry Plug</b>									
2	20	4.5	9.1	455-1886-1-ND	6.69	55.78	223.11	370.38/M	20PS-JMDSS-G-1-TF(LF)(SN)
	30	7.0	11.6	455-1887-1-ND	8.34	69.54	278.15	461.74/M	30PS-JMDSS-G-1-TF(LF)(SN)
	40	9.5	14.1	455-1888-1-ND	10.88	90.61	362.45	601.67/M	40PS-JMDSS-G-1-TF(LF)(SN)
	50	12.0	16.6	455-1889-1-ND	13.47	112.30	449.18	745.65/M	50PS-JMDSS-G-1-TF(LF)(SN)
	60	14.5	19.1	455-1890-1-ND	14.97	124.76	499.06	828.44/M	60PS-JMDSS-G-1-TF(LF)(SN)
2	70	17.0	21.6	455-1891-1-ND	17.43	145.28	581.11	964.65/M	70PS-JMDSS-G-1-TF(LF)(SN)
	80	19.5	24.1	455-1892-1-ND	24.87	207.19	828.77	1375.76/M	80PS-JMDSS-G-1-TF(LF)(SN)
	100	24.5	29.1	455-1893-1-ND	33.20	276.67	1106.69	1837.10/M	100PS-JMDSS-G-1-TF(LF)(SN)
	<b>Receptacle</b>								
3	20	4.5	9.1	455-1894-1-ND	9.52	79.31	317.23	526.61/M	20R-JMDSS-G-1-TF(S)(LF)(SN)
	30	7.0	11.6	455-1895-1-ND	10.50	87.47	349.87	580.78/M	30R-JMDSS-G-1-TF(S)(LF)(SN)
	40	9.5	14.1	455-1896-1-ND	13.19	109.95	439.77	730.03/M	40R-JMDSS-G-1-TF(S)(LF)(SN)
	50	12.0	16.6	455-1897-1-ND	15.72	131.00	523.99	869.83/M	50R-JMDSS-G-1-TF(S)(LF)(SN)
	60	14.5	19.1	455-1898-1-ND	17.50	145.88	583.50	968.61/M	60R-JMDSS-G-1-TF(S)(LF)(SN)
3	70	17.0	21.6	455-1899-1-ND	18.37	153.08	612.31	1016.44/M	70R-JMDSS-G-1-TF(S)(LF)(SN)
	80	19.5	24.1	455-1900-1-ND	19.03	158.60	634.40	1053.11/M	80R-JMDSS-G-1-TF(S)(LF)(SN)
	100	24.5	29.1	455-1901-1-ND	26.17	218.13	872.51	1448.38/M	100R-JMDSS-G-1-TF(S)(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 • 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

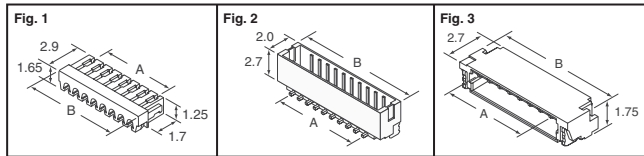


Fig.	Circuits	Dimensions - mm		Digi-Key Part No.	Pricing			JST Part No.
		A	B		10	100	500	
<b>Housing</b>								
1	2	0.8	2.4	455-2176-ND	3.18	26.51	106.05	02SUR-32S
	8	5.6	7.2	455-2177-ND	7.09	59.05	236.19	08SUR-32S
	12	8.8	10.4	455-2178-ND	8.98	74.87	299.45	12SUR-32S
	14	10.4	12.0	455-2179-ND	10.24	85.35	341.38	14SUR-32S
	15	11.2	12.8	455-2180-ND	10.60	88.36	353.44	15SUR-32S
	16	12.0	13.6	455-2181-ND	11.17	93.07	372.30	16SUR-32S
20	15.2	16.8	455-2182-ND	12.48	103.98	415.94	20SUR-32S	

Fig.	Circuit	Dim. - mm		Digi-Key Part No.	Cut Tape Pricing			Tape and Reel Qty.	JST Part No.	
		A	B		10	100	500			
<b>Headers</b>										
<b>Top Entry (Shrouded)</b>										
2	20	15.2	18.2	455-2030-1-ND	10.28	85.67	342.68	2,500	568.85/M	BM20B-SURS-TF(LF)(SN)
<b>Side Entry (Shrouded)</b>										
2	2	0.8	3.8	455-2039-1-ND	3.62	30.14	120.55	3,500	200.12/M	SM02B-SURS-TF(LF)(SN)
	8	5.6	8.6	455-2040-1-ND	7.09	59.10	236.41	3,500	392.45/M	SM08B-SURS-TF(LF)(SN)
	10	7.2	10.2	455-2041-1-ND	7.72	64.32	257.30	3,500	427.12/M	SM10B-SURS-TF(LF)(SN)
	15	11.2	14.2	455-2042-1-ND	10.13	84.37	337.48	3,500	560.22/M	SM15B-SURS-TF(LF)(SN)
16	12.0	15.0	455-2043-1-ND	10.82	90.20	360.79	3,500	598.91/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 Worlds 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

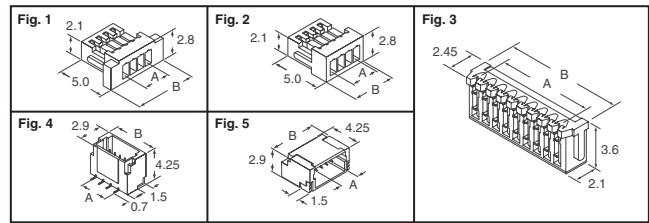


Fig.	Circuits	Dimensions - mm		Digi-Key Part No.	Pricing			JST Part No.	
		A	B		10	100	500		
<b>Housing</b>									
<b>Crimp With Protrusions</b>									
1	2	1.0	5.0	455-1377-ND	.37	3.06	12.25	SHR-02V-S-B	
	3	2.0	6.0	455-1378-ND	.45	3.75	15.01	SHR-03V-S-B	
	4	3.0	7.0	455-1379-ND	.53	4.40	17.59	SHR-04V-S-B	
	5	4.0	8.0	455-1380-ND	.62	5.13	20.52	SHR-05V-S-B	
	6	5.0	9.0	455-1381-ND	.68	5.63	22.51	SHR-06V-S-B	
	7	6.0	10.0	455-1382-ND	.76	6.36	25.45	SHR-07V-S-B	
	8	7.0	11.0	455-1383-ND	.83	6.98	27.90	SHR-08V-S-B	
	9	8.0	12.0	455-1384-ND	.91	7.59	30.09	SHR-09V-S-B	
	10	9.0	13.0	455-1385-ND	.99	8.20	32.82	SHR-10V-S-B	
	11	10.0	14.0	455-1386-ND	1.06	8.82	35.28	SHR-11V-S-B	
	1	12	11.0	15.0	455-1387-ND	1.13	9.44	37.74	SHR-12V-S-B
13		12.0	16.0	455-1388-ND	1.21	10.05	40.20	SHR-13V-S-B	
14		13.0	17.0	455-1389-ND	1.28	10.66	42.65	SHR-14V-S-B	
15		14.0	18.0	455-1390-ND	1.35	11.28	45.11	SHR-15V-S-B	
20		19.0	23.0	455-1391-ND	1.72	14.35	57.41	SHR-20V-S-B	
<b>Crimp Without Protrusions</b>									
2		2	1.0	3.0	455-1392-ND	.37	3.06	12.25	SHR-02V-S
	3	2.0	4.0	455-1393-ND	.45	3.75	15.01	SHR-03V-S	
	4	3.0	5.0	455-1394-ND	.53	4.40	17.59	SHR-04V-S	
	5	4.0	6.0	455-1395-ND	.62	5.13	20.52	SHR-05V-S	
	6	5.0	7.0	455-1396-ND	.68	5.63	22.51	SHR-06V-S	
	7	6.0	8.0	455-1397-ND	.76	6.36	25.45	SHR-07V-S	
	8	7.0	9.0	455-1398-ND	.83	6.98	27.90	SHR-08V-S	
	9	8.0	10.0	455-1399-ND	.91	7.59	30.36	SHR-09V-S	
	10	9.0	11.0	455-1400-ND	.99	8.20	32.82	SHR-10V-S	
	11	10.0	12.0	455-1401-ND	1.06	8.82	35.28	SHR-11V-S	
	3	12	11.0	13.0	455-1402-ND	1.13	9.44	37.74	SHR-12V-S
13		12.0	14.0	455-1403-ND	1.21	10.05	40.20	SHR-13V-S	
14		13.0	15.0	455-1404-ND	1.28	10.66	42.65	SHR-14V-S	
15		14.0	16.0	455-1405-ND	1.36	11.29	45.12	SHR-15V-S	
<b>IDC Housing</b>									
3		2	1.0	3.0	455-2183-ND	1.37	11.44	45.75	02SR-3S
	3	2.0	4.0	455-2184-ND	1.66	13.88	55.51	03SR-3S	
	4	3.0	5.0	455-2185-ND	1.96	16.32	65.27	04SR-3S	
	5	4.0	6.0	455-2186-ND	2.27	18.90	75.59	05SR-3S	
	6	5.0	7.0	455-2187-ND	2.56	21.34	85.34	06SR-3S	
	7	6.0	8.0	455-2188-ND	3.08	25.68	102.71	07SR-3S	
	8	7.0	9.0	455-2189-ND	3.38	28.22	112.88	08SR-3S	
	9	8.0	10.0	455-2190-ND	3.69	30.73	122.92	09SR-3S	
	10	9.0	11.0	455-2191-ND	3.98	33.17	132.68	10SR-3S	
	11	10.0	12.0	455-2192-ND	4.28	35.68	142.72	11SR-3S	
	12	11.0	13.0	455-2193-ND	5.72	47.69	190.77	12SR-3S	

<b>Crimp Tools</b>			
Head Adapter SR Series.....	455-2301-ND	837.29/1	IDH-SR-20
Pistol Grip Crimp Tool.....	455-1372-ND	109.92/1	IDB-12

Fig.	Circuits	Dim. - mm		Digi-Key Part No.	Cut Tape Pricing			Tape and Reel Qty.	JST Part No.		
		A	B		10	100	500				
<b>Shrouded Header</b>											
<b>Top Entry Type</b>											
4	2	1.0	4.0	455-1788-1-ND	2.46	20.49	81.94	1,500	136.02/M	BM02B-SRSS-TB(LF)(SN)	
	3	2.0	5.0	455-1789-1-ND	2.89	24.07	96.28	1,500	159.83/M	BM03B-SRSS-TB(LF)(SN)	
	4	3.0	6.0	455-1790-1-ND	3.39	28.24	112.96	1,500	187.52/M	BM04B-SRSS-TB(LF)(SN)	
	5	4.0	7.0	455-1791-1-ND	4.11	34.25	136.99	1,500	227.40/M	BM05B-SRSS-TB(LF)(SN)	
	6	5.0	8.0	455-1792-1-ND	4.52	37.69	150.78	1,500	250.30/M	BM06B-SRSS-TB(LF)(SN)	
	4	7	6.0	9.0	455-1793-1-ND	4.94	41.19	164.77	1,500	273.52/M	BM07B-SRSS-TB(LF)(SN)
		8	7.0	10.0	455-1794-1-ND	5.48	45.67	182.70	1,500	303.28/M	BM08B-SRSS-TB(LF)(SN)
		9	8.0	11.0	455-1795-1						