

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

A

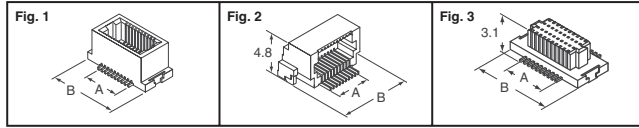


Fig.	Circuits	Dim. (mm)		Digi-Key Part No.	Cut Tape Pricing			Tape and Reel Pricing 1,500	JST Part No.
		A	B		1	10	100		
Top Entry Plug									
4.5mm Stacking Height									
1	20	4.5	9.1	455-1874-1-ND	1.08	10.00	83.36	553.51/M	20P-JMDSS-G-1-TF(S)(LF)(SN)
	40	9.5	14.1	455-1875-1-ND	1.25	11.56	96.30	639.44/M	40P-JMDSS-G-1-TF(S)(LF)(SN)
	50	12.0	16.6	455-1876-1-ND	1.49	13.73	114.43	759.86/M	50P-JMDSS-G-1-TF(S)(LF)(SN)
	60	14.5	19.1	455-1877-1-ND	1.99	18.41	153.39	1018.54/M	60P-JMDSS-G-1-TF(LF)(SN)
	70	17.0	21.6	455-1878-1-ND	2.20	20.32	169.28	1124.02/M	70P-JMDSS-G-1-TF(LF)(SN)
	80	19.5	24.1	455-1879-1-ND	2.61	24.12	201.02	1334.73/M	80P-JMDSS-G-1-TF(LF)(SN)
100	24.5	29.1	455-1880-1-ND	3.16	29.09	242.40	1609.54/M	100P-JMDSS-G-1-TF(LF)(SN)	
5.0mm Stacking Height									
1	30	7.0	11.6	455-1881-1-ND	1.19	10.94	91.14	605.14/M	30P5.0-JMDSS-G-1-TF(LF)(SN)
6.0mm Stacking Height									
1	50	12.0	16.6	455-1883-1-ND	1.74	16.02	133.44	886.02/M	50P6.0-JMDSS-G-1-TF(LF)(SN)
	60	14.5	19.1	455-1884-1-ND	2.11	19.41	161.75	1074.06/M	60P6.0-JMDSS-G-1-TF(S)(LF)(SN)
	70	17.0	21.6	455-1885-1-ND	2.33	21.49	179.02	1188.68/M	70P6.0-JMDSS-G-1-TF(LF)(SN)
Side Entry Plug									
2	20	4.5	9.1	455-1886-1-ND	.85	7.82	65.22	433.04/M	20PS-JMDSS-G-1-TF(LF)(SN)
	30	7.0	11.6	455-1887-1-ND	1.06	9.75	81.31	539.87/M	30PS-JMDSS-G-1-TF(LF)(SN)
	40	9.5	14.1	455-1888-1-ND	1.38	12.72	105.95	703.47/M	40PS-JMDSS-G-1-TF(LF)(SN)
	50	12.0	16.6	455-1889-1-ND	1.71	15.75	131.30	871.82/M	50PS-JMDSS-G-1-TF(LF)(SN)
	60	14.5	19.1	455-1890-1-ND	1.90	17.51	145.87	968.62/M	60PS-JMDSS-G-1-TF(LF)(SN)
	70	17.0	21.6	455-1891-1-ND	2.21	20.38	169.87	1127.89/M	70PS-JMDSS-G-1-TF(LF)(SN)
80	19.5	24.1	455-1892-1-ND	3.15	29.07	242.25	1608.54/M	80PS-JMDSS-G-1-TF(LF)(SN)	
100	24.5	29.1	455-1893-1-ND	4.20	38.81	323.49	2147.96/M	100PS-JMDSS-G-1-TF(LF)(SN)	
Receptacle									
3	20	4.5	9.1	455-1894-1-ND	1.21	11.13	92.73	615.72/M	20R-JMDSS-G-1-TF(S)(LF)(SN)
	30	7.0	11.6	455-1895-1-ND	1.33	12.27	102.27	679.05/M	30R-JMDSS-G-1-TF(S)(LF)(SN)
	40	9.5	14.1	455-1896-1-ND	1.67	15.42	128.55	853.56/M	40R-JMDSS-G-1-TF(S)(LF)(SN)
	50	12.0	16.6	455-1897-1-ND	1.99	18.38	153.17	1017.02/M	50R-JMDSS-G-1-TF(S)(LF)(SN)
	60	14.5	19.1	455-1898-1-ND	2.22	20.47	170.56	1132.51/M	60R-JMDSS-G-1-TF(S)(LF)(SN)
	70	17.0	21.6	455-1899-1-ND	2.44	22.55	187.93	1247.84/M	70R-JMDSS-G-1-TF(S)(LF)(SN)
80	19.5	24.1	455-1900-1-ND	2.53	23.37	194.71	1292.87/M	80R-JMDSS-G-1-TF(LF)(SN)	
100	24.5	29.1	455-1901-1-ND	3.48	32.14	267.79	1778.12/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

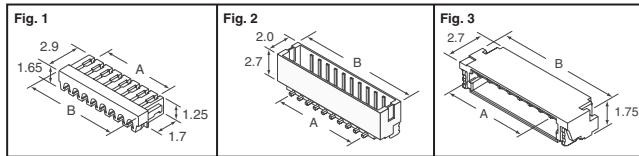


Fig.	Circuits	Dimensions (mm)		Digi-Key Part No.	Pricing			JST Part No.
		A	B		1	10	100	
Housing								
1	2	0.8	2.4	455-2176-ND	.40	3.72	31.00	02SR-32S
	8	5.6	7.2	455-2177-ND	.90	8.29	69.04	08SR-32S
	12	8.8	10.4	455-2178-ND	1.14	10.51	87.54	12SR-32S
	14	10.4	12.0	455-2179-ND	1.30	11.97	99.79	14SR-32S
	15	11.2	12.8	455-2180-ND	1.35	12.40	103.31	15SR-32S
	16	12.0	13.6	455-2181-ND	1.42	13.06	108.83	16SR-32S
20	15.2	16.8	455-2182-ND	1.58	14.59	121.59	20SR-32S	

Fig.	Circuits	Dimensions (mm)		Digi-Key Part No.	Cut Tape Pricing			Tape and Reel Pricing Qty.	JST Part No.	
		A	B		1	10	100			
Heads										
Top Entry (Shrouded)										
2	20	15.2	18.2	455-2030-1-ND	1.31	12.02	100.16	2,500	665.11/M	BM20B-SURS-TF(LF)(SN)
Side Entry (Shrouded)										
3	2	0.8	3.8	455-2039-1-ND	.46	4.23	35.24	3,500	233.98/M	SM02B-SURS-TF(LF)(SN)
	8	5.6	8.6	455-2040-1-ND	.90	8.30	69.11	3,500	458.86/M	SM08B-SURS-TF(LF)(SN)
	10	7.2	10.2	455-2041-1-ND	.98	9.03	75.21	3,500	499.39/M	SM10B-SURS-TF(LF)(SN)
	15	11.2	14.2	455-2042-1-ND	1.28	11.84	98.65	3,500	655.02/M	SM15B-SURS-TF(LF)(SN)
	16	12.0	15.0	455-2043-1-ND	1.37	12.65	105.46	3,500	700.25/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

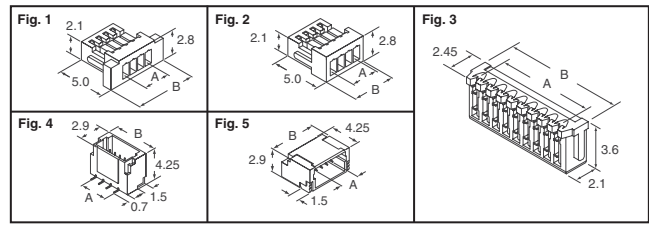


Fig.	Circuits	Dimensions (mm)		Digi-Key Part No.	Pricing			JST Part No.	
		A	B		1	10	100		
Housing									
Crimp With Protrusions									
1	2	1.0	5.0	455-1377-ND	.05	.43	3.58	SHR-02V-S-B	
	3	2.0	6.0	455-1378-ND	.06	.53	4.39	SHR-03V-S-B(P)	
	4	3.0	7.0	455-1379-ND	.06	.62	5.14	SHR-04V-S-B	
	5	4.0	8.0	455-1380-ND	.08	.72	6.00	SHR-05V-S-B	
	6	5.0	9.0	455-1381-ND	.09	.79	6.58	SHR-06V-S-B	
	7	6.0	10.0	455-1382-ND	.10	.89	7.44	SHR-07V-S-B	
	8	7.0	11.0	455-1383-ND	.10	.98	8.16	SHR-08V-S-B(P)	
	9	8.0	12.0	455-1384-ND	.11	1.07	8.87	SHR-09V-S-B	
	10	9.0	13.0	455-1385-ND	.13	1.15	9.59	SHR-10V-S-B(P)	
	11	10.0	14.0	455-1386-ND	.14	1.24	10.31	SHR-11V-S-B	
	12	11.0	15.0	455-1387-ND	.14	1.32	11.04	SHR-12V-S-B	
	13	12.0	16.0	455-1388-ND	.15	1.41	11.75	SHR-13V-S-B	
	14	13.0	17.0	455-1389-ND	.16	1.50	12.47	SHR-14V-S-B	
	20	19.0	23.0	455-1391-ND	.22	2.01	16.78	SHR-20V-S-B	
Crimp Without Protrusions									
2	2	1.0	3.0	455-1392-ND	.05	.43	3.58	SHR-02V-S	
	3	2.0	4.0	455-1393-ND	.06	.53	4.39	SHR-03V-S(P)	
	4	3.0	5.0	455-1394-ND	.06	.62	5.14	SHR-04V-S	
	5	4.0	6.0	455-1395-ND	.08	.72	6.00	SHR-05V-S	
	6	5.0	7.0	455-1396-ND	.09	.79	6.58	SHR-06V-S	
	7	6.0	8.0	455-1397-ND	.10	.89	7.44	SHR-07V-S	
	8	7.0	9.0	455-1398-ND	.10	.98	8.16	SHR-08V-S	
	9	8.0	10.0	455-1399-ND	.11	1.07	8.87	SHR-09V-S	
	10	9.0	11.0	455-1400-ND	.13	1.15	9.59	SHR-10V-S	
	11	10.0	12.0	455-1401-ND	.14	1.24	10.31	SHR-11V-S	
	12	11.0	13.0	455-1402-ND	.14	1.32	11.04	SHR-12V-S	
	14	13.0	15.0	455-1404-ND	.16	1.50	12.47	SHR-14V-S	
	IDC Housing								
	3	2	1.0	3.0	455-2183-ND	.18	1.60	13.37	02SR-3S(P)
3		2.0	4.0	455-2184-ND	.21	1.95	16.22	03SR-3S	
4		3.0	5.0	455-2185-ND	.25	2.29	19.08	04SR-3S	
5		4.0	6.0	455-2186-ND	.29	2.65	22.09	05SR-3S	
6		5.0	7.0	455-2187-ND	.32	2.99	24.94	06SR-3S	
7		6.0	8.0	455-2188-ND	.39	3.60	30.02	07SR-3S	
8		7.0	9.0	455-2189-ND	.43	3.96	32.99	08SR-3S	
9		8.0	10.0	455-2190-ND	.46	4.31	35.93	09SR-3S	
10		9.0	11.0	455-2191-ND	.50	4.65	38.78	10SR-3S	
11		10.0	12.0	455-2192-ND	.54	5.01	41.71	11SR-3S	
12		11.0	13.0	455-2193-ND	.73	6.69	55.77	12SR-3S	
Crimp Tools									
Head Adapter SR Series					455-2301-ND		1027.91/1	IDHSR20	
Pistol Grip Crimp Tool					455-1372-ND		128.52/1	IDB-12	

Fig.	Circuits	Dimensions (mm)		Digi-Key Part No.	Cut Tape Pricing			Tape and Reel Pricing Qty.	JST Part No.
		A	B		1	10	100		
Shrouded Header									
Top Entry Type									
4	2	1.0	4.0	455-1788-1-ND	.31	2.87	1,500	159.03/M	BM02B-SRSS-TB(LF)(SN)
	3	2.0	5.0	455-1789-1-ND	.37	3.38	1,500	186.88/M	BM03B-SRSS-TB(LF)(SN)
	4	3.0	6.0	455-1790-1-ND	.43	3.96	1,500	219.25/M	BM04B-SRSS-TB(LF)(SN)(P)
	5	4.0	7.0	455-1791-1-ND	.52	4.80	1,500	265.88/M	BM05B-SRSS-TB(LF)(SN)
	6	5.0	8.0	455-1792-1-ND	.58	5.29	1,500	292.65/M	BM06B-SRSS-TB(LF)(SN)
	7	6.0	9.0	455-1793-1-ND	.62	5.78	1,500	319.81/M	BM07B-SRSS-TB(LF)(SN)
	8	7.0	10.0	455-1794-1-ND	.70	6.41	1,500	354.60/M	BM08B-SRSS-TB(LF)(SN)
	9	8.0	11.0	455-1795-1-ND	.74	6.89	1,500	381.06/M	BM09B-SRSS-TB(LF)(SN)
	10	9.0	12.0	455-1796-1-ND	.86	7.39	1,500	408.89/M	BM10B-SRSS-TB(LF)(SN)
	11	10.0	13.0	455-1797-1-ND	.86	7.90	1,500	436.74/M	BM11B-SRSS-TB(LF)(SN)
	12	11.0	14.0	455-1798-1-ND	.90	8.31	1,500	459.76/M	BM12B-SRSS-TB(LF)(SN)
	13	12.0	15.0	455-1799-1-ND	.96	8.89	1,500	492.07/M	BM13B-SRSS-TB(LF)(SN)
	14	13.0	16.0	455-1800-1-ND	1.06	9.75	1,500	539.90/M	BM14B-SRSS-TB(LF)(SN)