

# JST XA Series 2.5mm Connectors (Cont.)



Fig.	Circuits	Dimensions - mm		Digi-Key Part No.	Cut Tape Pricing		Tape & Reel Pricing 500	JST Part No.
		A	B		1	10		
<b>Headers</b>								
<b>SMT Type (Shrouded)</b>								
4	2	2.5	10.0	455-2022-1-ND	.82	7.57	252.50	BM02B-XASS-TF(LF)(SN)
	3	5.0	12.5	455-2023-1-ND	1.02	9.45	314.98	BM03B-XASS-TF(LF)(SN)
	5	10.0	17.5	455-2024-1-ND	1.18	10.91	363.70	BM05B-XASS-TF(LF)(SN)
	6	12.5	20.0	455-2025-1-ND	1.29	11.86	395.46	BM06B-XASS-TF(LF)(SN)
	7	15.0	22.5	455-2026-1-ND	1.54	14.23	474.33	BM07B-XASS-TF(LF)(SN)
	8	17.5	25.0	455-2027-1-ND	1.60	14.77	492.40	BM08B-XASS-TF(LF)(SN)
	9	20.0	27.5	455-2028-1-ND	1.66	15.32	510.73	BM09B-XASS-TF(LF)(SN)
13	30.0	37.5	455-2029-1-ND	2.11	19.50	649.97	BM13B-XASS-TF(LF)(SN)	

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

Description	Digi-Key Part No.	Cut Tape Pricing		Tape & Reel Pricing 8,000	JST Part No.
		1	100		
<b>Contacts - Tin Plated</b>					
26 - 22 AWG	455-2050-1-ND	.04	.30	15.03/M	SXA-001T-P0.6L(N)
24 - 20 AWG	455-2051-1-ND	.04	.30	15.03/M	SXA-01T-P0.6
<b>Hand Crimp Tools</b>					
22 - 26 AWG	455-2045-ND	555.09/1		—	WC-691
20 - 24 AWG	455-2046-ND	673.84/1		—	WC-700M
20 - 24 AWG	455-2049-ND	1515.55/1		—	YRS-692

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

# XAD Series 2.5mm Connectors



**Features:** • Locking device prevents accidental disconnection • Solder crack preventive material • Mis-insertion preventative design  
**Specifications:** • Current Rating: 3A AC/DC (20 AWG) • Voltage Rating: 250V AC/DC • Temperature Range: -25°C - 85°C • Applicable Wire: 28 - 20 AWG

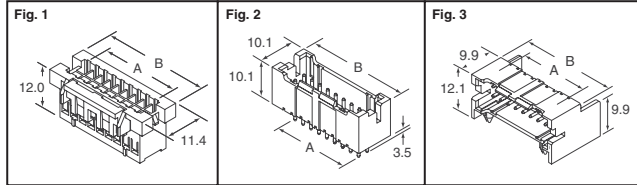


Fig.	Circuits	Dimensions (mm)		Digi-Key Part No.	Pricing			JST Part No.
		A	B		1	10	100	
<b>Housing</b>								
1	8	7.5	14.7	455-2162-ND	.28	2.59	21.57	XADRP-08V
	10	10.0	17.2	455-2163-ND	.28	2.64	22.01	XADRP-10V
	12	12.5	19.7	455-2164-ND	.28	2.54	21.16	XADRP-12V
	14	15.0	22.2	455-2165-ND	.30	2.75	22.89	XADRP-14V(P)
	16	17.5	24.7	455-2166-ND	.30	2.81	23.36	XADRP-16V(P)
	18	20.0	27.2	455-2167-ND	.31	2.85	23.79	XADRP-18V
	20	22.5	29.7	455-2168-ND	.31	2.91	24.22	XADRP-20V
	22	25.0	32.2	455-2169-ND	.33	2.96	24.65	XADRP-22V
	24	27.5	34.7	455-2170-ND	.33	3.01	25.08	XADRP-24V(P)
	26	30.0	37.2	455-2171-ND	.34	3.09	25.69	XADRP-26V
	28	32.5	39.7	455-2172-ND	.34	3.12	26.01	XADRP-28V
	30	35.0	42.2	455-2174-ND	.35	3.19	26.54	XADRP-30V(P)
34	40.0	47.2	455-2173-ND	.36	3.28	27.30	XADRP-34V	
40	47.5	54.7	455-2175-ND	.37	3.43	28.66	XADRP-40V	
<b>Headers</b>								
<b>Top Entry (Shrouded)</b>								
2	8	7.5	15.0	455-1997-ND	.56	5.21	43.42	B08B-XADSS-N(LF)(SN)
	10	10.0	17.5	455-2002-ND	.64	5.89	49.12	B10B-XADSS-N(LF)(SN)
	14	15.0	22.5	455-2008-ND	.74	6.89	57.39	B14B-XADSS-N(LF)(SN)
	18	20.0	27.5	455-2011-ND	.90	8.25	68.71	B18B-XADSS-N(LF)(SN)
	20	22.5	30.0	455-2014-ND	.93	8.58	71.52	B20B-XADSS-N(LF)(SN)
	26	30.0	37.5	455-2019-ND	1.20	11.05	92.07	B26B-XADSS-N(LF)(SN)
	36	42.5	50.0	455-2020-ND	1.72	15.83	131.99	B36B-XADSS-N(LF)(SN)
40	47.5	55.0	455-2021-ND	1.95	18.04	150.39	B40B-XADSS-N(LF)(SN)	
<b>Side Entry (Shrouded)</b>								
3	8	7.5	15.0	455-2031-ND	1.75	16.20	135.06	S08B-XADSS-N(LF)(SN)
	12	12.5	20.0	455-2033-ND	1.90	17.54	146.14	S12B-XADSS-N(LF)(SN)
	14	15.0	22.5	455-2034-ND	2.10	19.42	161.83	S14B-XADSS-N(LF)(SN)
	20	22.5	30.0	455-2035-ND	2.66	24.60	204.96	S20B-XADSS-N(LF)(SN)
	26	30.0	37.5	455-2036-ND	4.37	40.25	335.48	S26B-XADSS-N(LF)(SN)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

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(CA2011) 147

# VH Series 3.96mm Connectors



**Features:** • Reliable VH connector can be used in a wide variety of applications • Mounting height of 16.5mm • Lock mechanism prevents the connector from coming loose and prevents mis-insertion  
**Specifications:** • Current Rating: 10A maximum AC/DC • Voltage Rating: 250V AC/DC • Temperature Range: -25°C - 85°C • Applicable Wire: 22 - 16 AWG • Color: Natural (White)

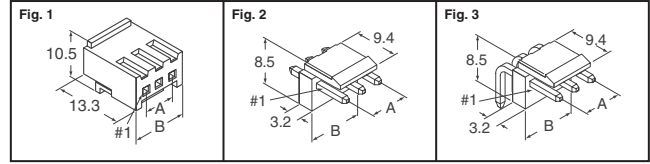


Fig.	Circuits	Dimensions (mm)		Digi-Key Part No.	Pricing			JST Part No.
		A	B		1	10	100	
<b>Housing</b>								
1	2	3.96	7.86	455-1183-ND	.08	.77	6.46	VHR-2N
	3	7.92	11.82	455-1184-ND	.10	.90	7.50	VHR-3N
	4	11.88	15.78	455-1185-ND	.12	1.14	9.55	VHR-4N
	5	15.84	19.74	455-1186-ND	.17	1.51	12.64	VHR-5N
	6	19.80	23.70	455-1187-ND	.18	1.63	13.59	VHR-6N
	7	23.76	27.66	455-1181-ND	.22	2.09	17.40	VHR-7N
	8	27.72	31.62	455-1188-ND	.24	2.15	17.99	VHR-8N
	9	31.68	35.58	455-1189-ND	.27	2.51	20.93	VHR-9N
	10	35.64	39.54	455-1187-ND	.31	2.87	23.94	VHR-10N
	<b>Headers</b>							
<b>Top Entry (locking)</b>								
2	2	3.96	7.86	455-1639-ND	.16	1.48	12.34	B2P-VH(LF)(SN)
	3	7.92	11.82	455-1640-ND	.20	1.87	15.61	B3P-VH(LF)(SN)
	4	11.88	15.78	455-1641-ND	.26	2.40	20.02	B4P-VH(LF)(SN)
	5	15.84	19.74	455-1642-ND	.33	2.95	24.61	B5P-VH(LF)(SN)
	6	19.80	23.70	455-1643-ND	.37	3.37	28.08	B6P-VH(LF)(SN)
	7	23.76	27.66	455-1644-ND	.43	3.89	32.48	B7P-VH(LF)(SN)
	8	27.72	31.62	455-1645-ND	.50	4.66	38.77	B8P-VH(LF)(SN)
	9	31.68	35.58	455-1646-ND	.56	5.16	43.00	B9P-VH(LF)(SN)
	10	35.64	39.54	455-1647-ND	.61	5.62	46.90	B10P-VH(LF)(SN)
	<b>Side Entry (locking)</b>							
3	2	3.96	7.86	455-1648-ND	.19	1.74	14.54	B2PS-VH(LF)(SN)
	3	7.92	11.82	455-1649-ND	.24	2.19	18.26	B3PS-VH(LF)(SN)
	4	11.88	15.78	455-1650-ND	.31	2.92	24.29	B4PS-VH(LF)(SN)
	5	15.84	19.74	455-1651-ND	.39	3.59	29.91	B5PS-VH(LF)(SN)
	6	19.80	23.70	455-1652-ND	.46	4.24	35.31	B6PS-VH(LF)(SN)
	7	23.76	27.66	455-1653-ND	.52	4.77	39.78	B7PS-VH(LF)(SN)
	8	27.72	31.62	455-1654-ND	.62	5.69	47.40	B8PS-VH(LF)(SN)
	9	31.68	35.58	455-1655-ND	.67	6.25	52.12	B9PS-VH(LF)(SN)
	10	35.64	39.54	455-1656-ND	.74	6.88	57.34	B10PSVH(LF)(SN)

Description	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel Qty.	Pricing	JST Part No.
		10	100	500			
<b>Contacts - Tin Plated</b>							
20 - 16 AWG	455-1319-1-ND	.08	.74	6.17	3,500	40.93/M	SVH-41T-P1.1
22 - 18 AWG	455-1133-1-ND	.07	.64	5.30	4,500	35.14/M	SVH-21T-P1.1
<b>Crimp Tools</b>							
20 - 16 AWG	455-1911-ND	555.09/1		—	—	—	WC-930
22 - 18 AWG	455-1134-ND	555.09/1		—	—	—	WC-160

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

# WPJ Series Wire-to-Wire and Wire-to-Board Crimp Style Connectors



The new WPJ Series Wire-to-Wire and Wire-to-Board crimp style connector was designed for both extreme moisture and non-submersion applications. Major uses include automotive, appliance, underwater cameras or non-water resistance applications. Three different control key patterns prevent mis-mating while their unique terminal structure has been designed to withstand mating mistakes while maintaining the contact reliability. An inner lock housing feature prevents accidental disconnection to ensure connector mating integrity even under adverse conditions.

**Specifications:** • Current Rating: 7A AC/DC • Voltage Rating: 300V AC/DC • Temperature Range: -25°C - 85°C • Applicable Wire: 22 - 18 AWG • Insulation Resistance: 1,000MΩ minimum • Dielectric Voltage: AC 1,500/one minute • Insulation Diameter: Standard 2.32 - 2.83mm, Thin 1.52 - 2.03mm • Water-proof Grade: IP:X7 • Pitch: 5.0mm  
 Material: • Contacts: Copper alloy, tin-plated • Housings: PBT (Glass-filled) • Flammability: UL94V-0

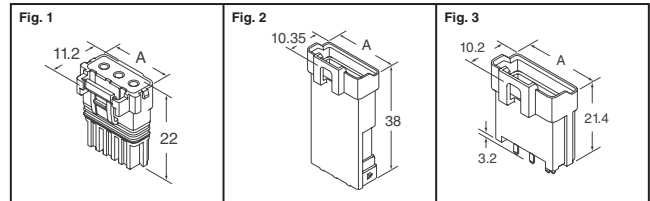


Fig.	Circuits	Dim. A (mm)	Key Pattern/Color*	Digi-Key Part No.	Pricing			JST Part No.
					1	10	100	
<b>Receptacle Housings</b>								
<b>Waterproof Type for Standard Wire</b>								
1	2	12.1	1/Natural	455-2427-ND	1.68	15.52	129.31	02R-WPJV-1-SMM(NN)
	2	12.1	2/Red	455-2428-ND	1.68	15.52	129.31	02R-WPJV-2-RMM(NN)
	2	12.1	3/Blue	455-2429-ND	1.68	15.52	129.31	02R-WPJV-3-EMM(NN)

\* Key Patterns/Colors do not intermate.

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