

molex® 2.0mm Milli-Grid™ Connectors



Headers: Electrical: • Current: 2.0A • Dielectric Withstanding Voltage: 500V (Shrouded Vertical, SMT, and Right Angle: 1000V) • Insulation Resistance: 1000MΩ minimum **Physical:** • Housing: 4/6 nylon, UL 94V-0 (Right Angle: Black glass-filled polyester, UL 94V-0) • Contact: Phosphor Bronze • Plating: 15µ" Select Gold • Temperature: -55°C - 105°C

Receptacle: Electrical: • Voltage: 125V • Current: 1.0A • Contact Resistance: 25mΩ maximum (Side Entry, Side Entry SMT, and Top/Bottom Entry: 15mΩ maximum) • Dielectric Withstanding Voltage: 500VAC (Top/Bottom Entry: 1000V) • Insulation Resistance: 1000MΩ minimum **Physical:** • Housing: Black glass-filled polyester, UL 94V-0 (Top/Bottom Entry:

Black LCP, UL 94V-0, Side Entry and Side Entry SMT: Black nylon, UL 94V-0) • Contact: Phosphor Bronze • Plating: 15µ" Select Gold • Temperature: -55°C - 105°C

Crimp Terminal: Electrical: • Voltage: 125V • Current: 26AWG: 1.5A, 28AWG: 1.0A, and 30AWG: 0.5A • Contact Resistance: 40mΩ maximum **Physical:** • Contact: Phosphor Bronze • Plating: 15µ" Select Gold • Temperature: -40°C - 105°C • Wire Range: 24-30AWG • Insulation Range: 1.40mm diameter maximum

Crimp Housing: Physical: • Housing: Black glass-filled polyester, UL 94V-0 • Temperature: -55°C - 105°C

A

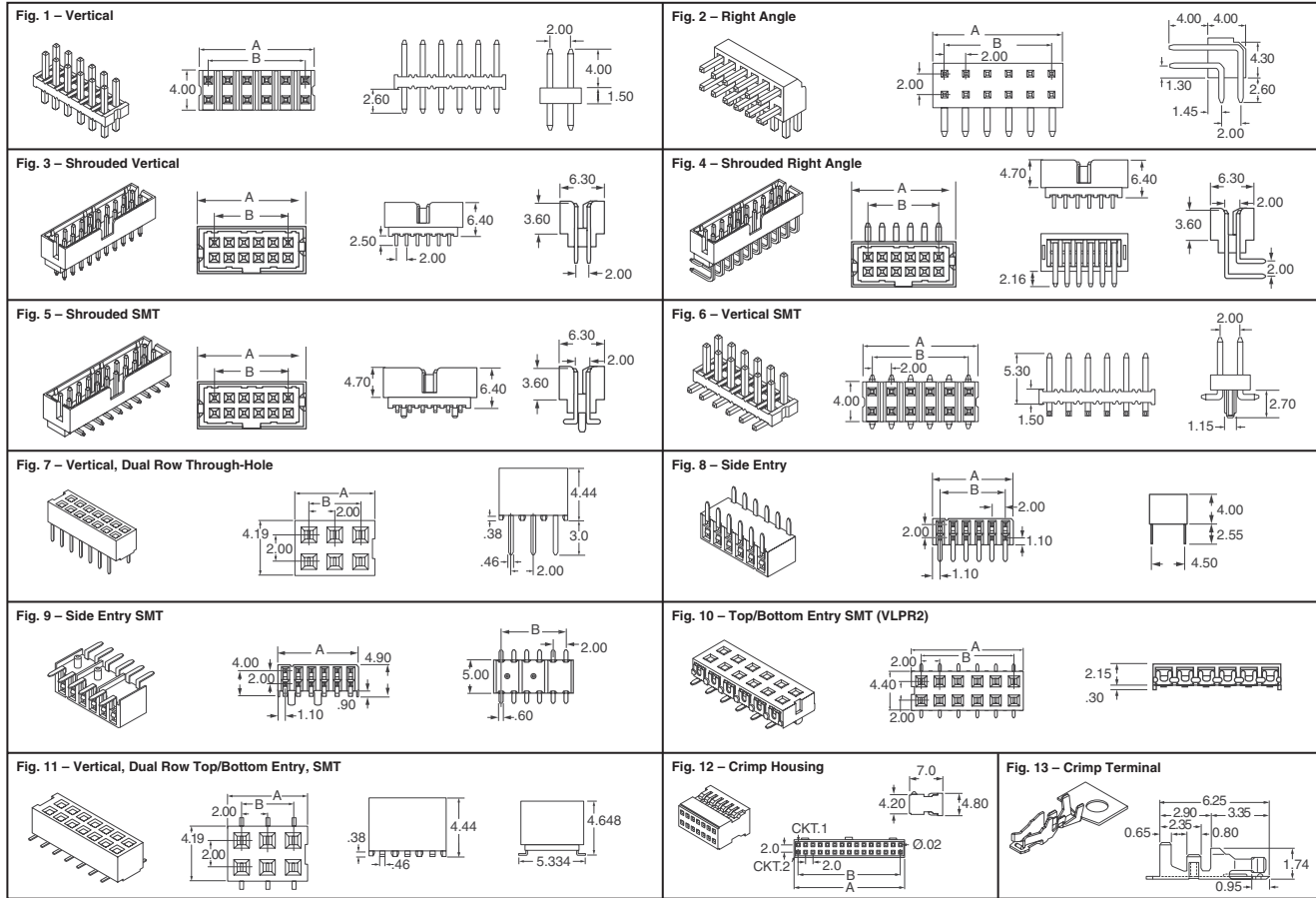


Fig.	Circuits	Dimensions (mm)		Digi-Key Part No.	Pricing			Molex Part No.	
		A	B		1	10	100		
Vertical Headers									
1	4	3.90	2.00	WM18833-ND	.54	4.76	31.75	87758-0416	
	6	5.90	4.00	WM18834-ND	.65	4.54	30.50	87758-0616	
	8	7.90	6.00	WM18835-ND	.84	7.41	49.37	87758-0816	
	10	9.90	8.00	WM18836-ND	.94	8.30	55.38	87758-1016	
	12	11.90	10.00	WM18837-ND	1.13	9.99	66.65	87758-1216	
	14	13.90	12.00	WM18838-ND	1.18	10.37	69.11	87758-1416	
	16	15.90	14.00	WM18839-ND	1.26	11.11	74.06	87758-1616	
	18	17.90	16.00	WM18840-ND	1.42	12.53	83.56	87758-1816	
	20	19.90	18.00	WM18841-ND	1.68	14.86	99.10	87758-2016	
	22	21.90	20.00	WM18842-ND	1.85	16.34	108.97	87758-2216	
1	24	23.90	22.00	WM18843-ND	1.91	16.82	112.14	87758-2416	
	26	25.90	24.00	WM18844-ND	2.19	19.26	128.37	87758-2616	
	28	27.90	26.00	WM18845-ND	2.35	20.73	138.24	87758-2816	
	30	29.90	28.00	WM18846-ND	2.39	21.16	141.04	87758-3016	
	32	31.90	30.00	WM18847-ND	2.46	21.69	144.58	87758-3216	
	34	33.90	32.00	WM18848-ND	2.50	22.05	147.05	87758-3416	
	36	35.90	34.00	WM18849-ND	2.64	23.33	155.54	87758-3616	
	40	39.90	38.00	WM18851-ND	2.94	25.92	172.80	87758-4016	
	42	41.90	40.00	WM18852-ND	3.09	27.24	181.61	87758-4216	
	44	43.90	42.00	WM18853-ND	3.23	28.51	190.07	87758-4416	
1	46	45.90	44.00	WM18854-ND	3.38	29.83	198.88	87758-4616	
	48	47.90	46.00	WM18855-ND	3.52	31.10	207.35	87758-4816	
	50	49.90	48.00	WM18856-ND	3.30	29.09	193.94	87758-5016	
	Right Angle Headers								
	2	4	4.00	2.00	WM18612-ND	.61	5.37	35.80	87760-0416
		6	6.00	4.00	WM18613-ND	.59	5.25	35.04	87760-0616
8		8.00	6.00	WM18614-ND	.82	7.31	48.75	87760-0816	
10		10.00	8.00	WM18615-ND	1.17	10.28	68.55	87760-1016	
12		12.00	10.00	WM18616-ND	1.26	11.09	73.91	87760-1216	
14		14.00	12.00	WM18617-ND	1.33	11.72	78.10	87760-1416	
16		16.00	14.00	WM18618-ND	1.40	12.34	82.28	87760-1616	
18		18.00	16.00	WM18619-ND	1.57	13.89	92.56	87760-1816	
20		20.00	18.00	WM18620-ND	1.75	15.42	102.85	87760-2016	
22		22.00	20.00	WM18621-ND	1.77	15.61	104.06	87760-2216	
24	24.00	22.00	WM18622-ND	1.75	15.46	103.02	87760-2416		

Fig.	Circuits	Dimensions (mm)		Digi-Key Part No.	Pricing			Molex Part No.	
		A	B		1	10	100		
2	26	26.00	24.00	WM18623-ND	2.09	18.45	123.00	87760-2616	
	30	30.00	28.00	WM18625-ND	2.41	21.29	141.90	87760-3016	
	32	32.00	30.00	WM18626-ND	2.50	22.08	147.17	87760-3216	
	34	34.00	32.00	WM18627-ND	2.56	22.60	150.67	87760-3416	
	36	36.00	34.00	WM18628-ND	2.62	23.13	154.18	87760-3616	
	40	40.00	38.00	WM18630-ND	2.74	24.18	161.19	87760-4016	
	44	44.00	42.00	WM18632-ND	2.86	25.23	168.19	87760-4416	
	50	50.00	48.00	WM18635-ND	2.68	23.66	157.70	87760-5016	
	Shrouded Vertical Headers								
	3	4	6.65	2.00	WM18557-ND	.92	8.15	54.33	87831-0420
6		8.65	4.00	WM18558-ND	1.01	8.94	59.56	87831-0620	
8		10.65	6.00	WM18559-ND	.87	7.73	51.52	87831-0820	
10		12.65	8.00	WM18560-ND	1.08	9.51	63.41	87831-1020	
12		14.65	10.00	WM18561-ND	1.29	11.40	76.04	87831-1220	
14		16.65	12.00	WM17469-ND	1.41	10.96	83.59	87831-1420	
16		18.65	14.00	WM18562-ND	1.63	14.35	95.66	87831-1620	
18		20.65	16.00	WM18563-ND	2.27	19.98	133.17	87831-1820	
20		22.65	18.00	WM18564-ND	2.15	19.03	126.85	87831-2020	
22		24.65	20.00	WM18566-ND	2.38	20.97	139.80	87831-2220	
3	24	26.65	22.00	WM17470-ND	2.59	22.86	152.43	87831-2420	
	30	32.65	28.00	WM18565-ND	3.24	28.54	190.25	87831-3020	
	40	42.65	38.00	WM18566-ND	4.32	38.10	254.04	87831-4020	
	44	46.65	42.00	WM18567-ND	4.75	41.89	279.28	87831-4420	
	50	52.65	48.00	WM18568-ND	5.39	47.57	317.12	87831-5020	
	Shrouded Right Angle Headers								
4	4	6.65	2.00	WM18858-ND	1.06	9.31	62.02	87833-0420	
	6	8.65	4.00	WM18859-ND	1.13	9.99	66.57	87833-0620	
	8	10.65	6.00	WM18860-ND	1.16	10.25	68.33	87833-0820	
	10	12.65	8.00	WM18861-ND	1.20	10.56	70.43	87833-1020	
	12	14.65	10.00	WM18862-ND	1.43	12.67	84.44	87833-1220	
	14	16.65	12.00	WM18863-ND	1.68	14.82	98.80	87833-1420	
	16	18.65	14.00	WM18864-ND	1.92	16.93	112.83	87833-1620	
	18	20.65	16.00	WM18865-ND	2.15	19.03	126.85	87833-1820	
	20	22.65	18.00	WM18866-ND	2.39	21.13	140.84	87833-2020	

† Loaded * Cut Tape ‡ Tape and Reel

(Continued)

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