



Electrical/Optical Char.	Static	HV†	Units
Oper. Temperature Range	-10°- 60°	10°- 60°	C
Operational Voltage, RMS	3.0	3.9 - 4.7	V-RMS
Drive Frequency	30-300	60-300	Hz
Current Consumption	15	15	nA/mm ²
Turn-On Time	120	80	ms
Turn-Off Time	100	80	ms

Reflective and Transflective (Transflective Denoted by "FC" in Varitronix Part No.)

Features: • Long Life/High Reliability • Excellent Optical Quality • High Contrast Ratio • Wide Viewing Angle • Large Useful Viewing Area • Fast Response • Low Power Consumption

Format	No. Of Digits	Digit Size (mm)	Type (mm)	Conn. No. Of Pins	Dual Row Spacing (mm)	Driver ICs (Not Included) (Applies to both P/N)	Matching Bezel ‡	Digi-Key Part No.	Price Each	1	5	10	Varitronix Part No.
7 Segment Displays													
8.8	2	12.70	2.54 Dip	18	30.50	4543B(2)	PRD180LPW-ND PRD180LPW-ND	153-1003-ND 153-1002-ND	2.09	1.94	1.74	1.74	VI-201-DP-RC-S VI-201-DP-FC-S
8.8.8	3	8.89	2.54 Dip	24	22.86	OKI MSM58292, HD61603	N/A	153-1101-ND	3.05	2.83	2.54	2.54	VI-321-DP-RC-S
18:8.8	3.5	8.89	2.54 Dip	40	25.40	IC7106	N/A	153-1134-ND	2.34	2.17	1.95	1.95	VI-301-DP-RC-S
18:8.8	3.5	12.70	2.54 Dip	40	30.48	4543B(4)	PRD180LP-ND PRD180LP-ND	153-1005-ND 153-1004-ND	2.82	2.61	2.34	2.34	VI-322-DP-RC-S VI-322-DP-FC-S
18:8.8	3.5	12.70	2.54 Dip	40	30.50	4543B(4)	PRD180LP-ND PRD180LP-ND	153-1023-ND 153-1022-ND	3.57	3.31	2.97	2.97	VI-302-DP-RC-S VI-302-DP-FC-S
18:8.8	3.5	17.80	2.54 Dip	40	38.00	4543B(4)	N/A	153-1015-ND 153-1014-ND	7.90	7.31	6.56	6.56	VI-319-DP-RC-S VI-319-DP-FC-S
8.8.8.8	4	12.70	2.54 Dip	20	30.48	—	PRD180LP-ND PRD180LP-ND	153-1046-ND 153-1047-ND	3.30	3.05	2.74	2.74	VIM-404-DP-RC-S-H VIM-404-DP-FC-S-HV
8.8.8.8	4	12.70	2.54 Dip	40	30.48	4543B(4)	PRD180LP-ND PRD180LP-ND	153-1007-ND 153-1006-ND	3.57	3.31	2.97	2.97	VI-422-DP-RC-S VI-422-DP-FC-S
8.8.8.8	4	8.89	2.54 Dip	40	22.86	—	—	153-1102-ND	2.34	2.17	1.95	1.95	VI-401-DP-RC-S
		12.70	2.54 Dip	40	30.50	HD61603	N/A	153-1103-ND	2.82	2.61	2.34	2.34	VI-402-DP-FC-S
		12.70	2.54 Dip	40	30.50	HD61603	N/A	153-1104-ND	3.03	2.81	2.52	2.52	VI-402-DP-FH-W
		12.70	2.54 Dip	40	25.40	—	N/A	153-1135-ND	2.82	2.61	2.34	2.34	VI-402-DP-RC-S
17.80	2.54 Dip	40	38.10	—	N/A	153-1105-ND	6.13	5.67	5.09	5.09	VI-415-DP-FH-W		
17.80	2.54 Dip	40	38.10	4543B(4)	N/A	153-1017-ND 153-1016-ND	7.43 6.88	6.88	6.17	6.17	VI-415-DP-RC-S VI-415-DP-FC-S		
-18:8.8.8.8	4.5	10.16	2.54 Dip	30	30.48	ICL7129A	PRD180LP-ND PRD180LP-ND	153-1054-ND 153-1055-ND	3.18	2.95	2.64	2.64	VIM-503-DP-RC-S-HV VIM-503-DP-FC-S-HV
18:8.8.8.8	4.5	10.20	2.54 Dip	40	30.50	4543B(5)	PRD180LP-ND PRD180LP-ND	153-1009-ND 153-1008-ND	3.57	3.31	2.97	2.97	VI-502-DP-RC-S VI-502-DP-FC-S
18:8.8.8.8	4.5	10.20	2.54 Dip	40	30.48	4543B(5)	PRD180LP-ND PRD180LP-ND	153-1025-ND 153-1024-ND	3.57	3.31	2.97	2.97	VI-509-DP-RC-S VI-509-DP-FC-S
-8888.8.8	5	10.00	2.54 Dip	28	30.00	—	N/A	153-1109-ND	3.48	3.23	2.90	2.90	VIM-516-DP-RC-S-LV
8.8.8.8.8	5	10.16	2.54 Dip	40	30.48	4543B(5)	PRD180LP-ND PRD180LP-ND	153-1019-ND 153-1018-ND	3.57	3.31	2.97	2.97	VI-508-DP-RC-S VI-508-DP-FC-S
		10.16	2.54 Dip	40	30.48	—	N/A	153-1106-ND	3.03	2.81	2.52	2.52	VI-508-DP-FH-W
8.8.8.8.8.8	6	12.70	2.54 Dip	50	30.48	4543B(6)	PRD250LP-ND PRD250LP-ND	153-1011-ND 153-1010-ND	5.42	5.01	4.50	4.50	VI-602-DP-RC-S VI-602-DP-FC-S
8.8.8.8.8.8	6	17.80	2.54 Dip	50	38.10	4543B(6)	N/A	153-1021-ND 153-1020-ND	10.85	10.04	9.01	9.01	VI-607-DP-RC-S VI-607-DP-FC-S
		25.40	2.54 Dip	70	45.72	—	N/A	153-1108-ND	14.59	13.50	12.12	12.12	VI-611-DP-FH-W
8.8.8.8.8.8.8	8	9.00	2.54 Dip	30	25.00	—	N/A	153-1112-ND	3.44	3.19	2.86	2.86	VIM-838-DP-RC-S-LV-6
8.8.8.8.8.8.8	8	12.70	2.54 Dip	42	30.48	—	PRD360LP-ND PRD360LP-ND	153-1056-ND	8.20	7.59	6.81	6.81	VIM-808-DP-RC-S-HV
								153-1057-ND	8.20	7.59	6.81	6.81	VIM-808-DP-FC-S-HV
8.8.8.8.8.8.8	8	12.72	2.54 Dip	68	30.48	4543B(8)	PRD360LP-ND PRD360LP-ND	153-1013-ND	8.97	8.31	7.45	7.45	VI-804-DP-RC-S
								153-1012-ND	8.97	8.31	7.45	7.45	VI-804-DP-FC-S
Alphanumeric Displays — RoHS Compliant													
1234567890	8	7.00	2.54 Dip	36	22.00	—	N/A	153-1113-ND	2.12	1.97	1.76	1.76	VIM-878-DP-FC-S-LV
								153-1114-ND	2.12	1.97	1.76	1.76	VIM-878-DP-RC-S-HV
								153-1115-ND	2.12	1.97	1.76	1.76	VIM-878-DP-RC-S-LV
1234567890	8	9.00	2.54 Dip	36	25.00	—	N/A	153-1110-ND	3.44	3.19	2.86	2.86	VIM-828-DP13.2-RC-S-LV
								153-1111-ND	3.73	3.46	3.10	3.10	VIM-828-DP5.7.6-HV-RH-W

◆ RoHS Compliant ‡ Bezels can be found under PRD Plastics in the manufacturer index. † Multiplexed Display ◊ Transflective

Backlight For Transflective LCDs

Overall Size (mm) L x W x H	Active Size (mm) LE x WE	Forward Current mA at 4.1V		Digi-Key Part No.	Price Each			Varitronix Part No.
		Typical	Maximum		1	5	10	
56.3 x 19.5 x 3.5	49 x 12	70	140	153-1026-ND	5.30	4.91	4.40	LED4-16264
75 x 26.6 x 3.8	60 x 22	135	270	153-1027-ND	8.13	7.53	6.75	LED4-20464B
94 x 24 x 4	84 x 19	180	360	153-1028-ND	6.90	6.38	5.73	LED4-20265
74 x 36.5 x 3	74 x 34	60	—	153-1131-ND	3.78	3.50	3.14	KIT-LED-41
110 x 28 x 4.8	101 x 23	—	420	153-1132-ND	4.21	3.90	3.50	KIT-LED-06
70 x 20.5 x 4.1	64 x 17.5	90	—	153-1133-ND	2.90	2.69	2.41	LED4G-16265

◆ RoHS Compliant

LCD Modules

Features: Character Format: 5 x 8 dot. All the LCD's listed use a SAMSUNG controller P/N KS0066.

Display Format	Matching Bezel ‡	Pad Layout	Outline Dim. (mm) W x H x D	Display Area Dim. (mm) W x H	Character Size W x H (mm)	Dot Size (mm) W x H	Operating Temperature (°C)	Storage Temperature (°C)	Supply Voltage (V)	Digi-Key Part No.	Price Each	1	5	10	Varitronix Part No.
Standard LCD															
16 x 1	PRD250LPW1-ND	Top	80 x 36 x 11	64.5 x 13.8	3.15 x 6.3	.55 x 0.70	-5 - 50	-20 - 60	5	153-1077-ND	7.97	7.38	6.62	6.62	MDL-16166-SS-LV
Supertwist LCD Module															
8 x 1	PRD250LPW-ND	Bottom	84 x 44 x 11	61 x 15.8	6.45 x 10.75	1.25 x 1.30	-5 - 50	-20 - 60	5	153-1080-ND	12.49	11.55	10.37	10.37	MDLS-81809-SS-LV-G
8 x 2	N/A	Top	33.7 x 44.4 x 10	26.5 x 12.2	2.10 x 3.39	.38 x .38	-5 - 50	-20 - 60	5	153-1130-ND	7.26	6.72	6.03	6.03	MDLS-82603-LV-G
16 x 1	PRD250LPW1-ND	Top	80 x 36 x 11	64.5 x 13.8	3.15 x 6.3	.55 x 0.70	-5 - 50	-20 - 60	5	153-1081-ND	8.83	8.17	7.33	7.33	MDLS-16166-SS-LV-G
16 x 2	PRD250LPW-ND	Bottom	84 x 44 x 10	61 x 15.8	2.95 x 5.55	.55 x .65	-5 - 50	-20 - 60	5	153-1082-ND	10.32	9.55	8.57	8.57	MDLS-16265-SS-LV-G
20 x 1	N/A	L. Side	182 x 33.5 x 11	154 x 15.3	6.7 x 11.50	1.30 x 1.30	-5 - 50	-20 - 60	5	153-1084-ND	24.26	22.45	20.14	20.14	MDLS-20189-SS-LV-G
20 x 2	PRD360LPW-ND	L. Side	116 x 37 x 11	83 x 18.6	3.2 x 5.55	.60 x .65	-5 - 50	-20 - 60	5	153-1085-ND	15.16	14.03	12.59	12.59	MDLS-20265-SS-LV-G
20 x 4	N/A	Top	98 x 60 x 12	76 x 25.2	2.9 x 4.7	.50 x .50	-5 - 50	-20 - 60	5	153-1086-ND	21.20	19.61	17.60	17.60	MDLS-20464-SS-LV-G
20 x 4	N/A	Top	98 x 60 x 12	76 x 25.2	2.9 x 4.7	.42 x .46	-5 - 50	-20 - 60	5	153-1127-ND	14.52	13.44	12.06	12.06	MDLS-20464-LV-S
24 x 2	PRD360LPW1-ND	L. Side	118 x 36 x 10	93.5 x 15.8	3.2 x 5.15	.60 x .60	-5 - 50	-20 - 60	5	153-1087-ND	16.67	15.42	13.84	13.84	MDLS-24265-SS-LV-G

◆ RoHS Compliant ◊ The LED chips are distributed over the whole lit area, bonded in a pattern which gives the most uniform illumination. Power connection is made by two solder holes, marked "A" for +5V and "K" for Ground. ‡ Bezels can be found under PRD Plastics in the manufacturer index. † 16 Pin Version

(Continued)

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