



	Part Number	LS013B4DN01	LS013B4DN02	LQ02288U005	LQ025Q30W02	LS027B4DN01	LS027B4DH01	LQ030B7U002	LQ035Q30G01	LQ035Q30W02	LQ035Q7DB05	LQ035Q7DB06	LQ035Q7DH06/07	LQ036Q10A01	LS037V7DW01	LS037V7DW03	LQ038Q7DB03R	
Key Features	Resolution	Square	Square	QCIF+	QVGA ASV	WQVGA	WVGA	WQVGA	QVGA	QVGA ASV	QVGA	QVGA	QVGA	QVGA	QVGA/VGA ASV	QVGA/VGA ASV	QVGA	
	Status	Production	Production	Production	Production	Production	Production	Production	Production	Production	New Factory	MP Q1 2010	Not for New Design	Not for New Design	Production	Production	Factory Transition	
	Comments	Zebra Strip	Flex Cable	Portrait Mode	Landscape	PNLC	HR-TFT	Portrait Mode	No TS	No TS			TS/No TS Portrait	No TS	TS	No TS		
	Panel Mode	Reflective	Reflective	Transflective	Transmissive	Reflective	Reflective	Transflective	Transmissive	Transmissive	Transflective	Transflective	Transflective	Transflective	Transmissive	Transflective	Transflective	Transflective
RoHS	Pb - Free	RoHS	RoHS	RoHS	RoHS	RoHS	RoHS	RoHS	RoHS	RoHS	RoHS	RoHS	RoHS	RoHS	RoHS	RoHS	RoHS	
Mechanical	Nominal Diagonal	Inch	1.35 (3.4 cm)	1.35 (3.4 cm)	2.2" (xx cm)	2.5" (6.3 cm)	2.7" (6.7 cm)	2.7" (6.7 cm)	3" (7.6cm)	3.5" (8.8 cm)	3.5" (8.8 cm)	3.52" (8.88 cm)	3.52" (8.88 cm)	3.52" (8.9 cm)	3.6" (9.10 cm)	3.7" (9.4 cm)	3.7" (9.4 cm)	3.78" (9.54 cm)
	Outline Dimensions	mm	32 × 2.8 × 2.1	32 × 2.8 × 2.1	42.1 × 56.6 × 4.2	56.8 × 48.8 × 3.5	62.8 × 42.8 × 1.4	62.8 × 42.8 × 1.4	47 × 76 × 3.3	76.9 × 63.9 × 3.5	76.9 × 63.9 × 3.5	65.0 × 85.0 × 3.4	65.0 × 85.0 × 4.5	65.0 × 86.2 × 4.0	82.8 × 69.7 × 3.3	65.0 × 89.2 × 4.4	65.0 × 89.2 × 3.6	69.0 × 88.6 × 3.4
	Active Area	mm	24.0 × 24.0	24.0 × 24.0	34.848 × 43.56	49.92 × 37.44	59 × 35.3	59 × 35.3	39 × 65	70.56 × 52.92	70.56 × 52.92	53.64 × 71.52	54 × 72	53.64 × 71.52	72.5 × 54.4	56.16 × 74.88	56.16 × 74.88	57.6 × 76.8
	Pixel Format		96 × 96	96 × 96	176 × 220	320 × 240	400 × 240	400 × 240	240 × 400	320 × 240	320 × 240	240 × 320	240 × 320	240 × 320	320 × 240	480 × 640	480 × 640	240 (×3) × 320
	Pixel Pitch	mm	0.252 × 0.252	0.252 × 0.252	0.198 × 0.198	0.156 × 0.156	0.147 × 0.147	0.147 × 0.147	0.162 × 0.162	0.2205 × 0.2205	0.2205 × 0.2205	0.2235 × 0.2235	0.224 × 0.224	0.2235 × 0.2235	0.221 × 0.223	0.117 × 0.117	0.117 × 0.117	0.24 × 0.24
	Weight	g	3.6	3.6	12.1	25	TBD	TBD	24	33	33	40	50	45/34	37	48/38	38	42
	Surface Treatment		3H	3H		AG	3H		3H	AG	AG	3H	3H	2H/3H	3H	3H	3H	3H
Environmental	Operating Temp	°C	-30 to +80	-30 to +80	-10 to +60	-10 to +60	-30 to +80	-30 to +80	-30 to +80	-20 to +70	-10 to +70	-10 to +80	-10 to +80	-10 to +70	-10 to +60	-10 to +60	-10 to +60	0 to +50
	Storage Temp	°C	-20 to +70	-20 to +70	-20 to +70	-25 to +70	-20 to +70	-20 to +70	-10 to +70	-30 to +80	-25 to +70	-25 to +70	-25 to +70	-25 to +70	-20 to +70	-20 to +70	-20 to +70	-25 to +70
Electronics	Response Time (TYP.)	ms	100	100	63	30	100	100	60	28	30	80	80	80	45	35	35	80
	Clock Frequency (TYP.)	Mhz	1.0	1.0	6.8	5.0	1.0	1.0	5.0	5.0	5.0	6.8	5.0	6.8	6.8	6.8	6.8	
Optical	Display Mode	Normally White	Normally White	Normally White	Normally Black	Normally White	Normally White	Normally White	Normally White	Normally Black	Normally White	Normally White	Normally White	Normally White	Normally White	Normally Black	Normally Black	Normally White
	Display Orientation	Optional	Optional		UD/LR	Optional	Optional		UD/LR	UD/LR	UD/LR	UD/LR	UD/LR	UD/LR	UD/LR	UD/LR	UD/LR	UD/LR
	Optimum View Angle	Symmetrical	Symmetrical	Symmetrical	Symmetrical	Symmetrical	Symmetrical	Symmetrical	6:00	Symmetrical	12:00	Symmetrical	12:00	12:00	Symmetrical	Symmetrical	Symmetrical	
	Viewing Angle - side to side	TBD	TBD	60	160	TBD	TBD	110	140	160	80	100	80	160	160	160	160	80
	Viewing Angle - 12 o'clock	TBD	TBD	30	80	TBD	TBD	65	80	80	50	50	50	80	80	80	80	40
	Viewing Angle - 6 o'clock	TBD	TBD	30	80	TBD	TBD	50	65	80	40	50	40	50	80	80	80	40
	Bits per Color	1	1	6	6	1	1	6	6	6	6	6	6	6	6	6	6	6
	Transmissive CR	10	10	60	500	6	14	100	500	500	85	70	80	500	200	200	200	75
	Brightness	nits	NA	NA	125	350	NA	NA	150	450	450	160	50	225/250	280	165	200	90
	Reflective CR	10	10		NA			NA	NA	15	15	3			2	2	8	
Reflectance	%	50%	50%	11%	NA	50%	20%	15%	NA	NA	13%	11%	4%		4%	4%	11%	
Electrical	Display Voltages (TYP.)	VDC	5.0	5.0	+3.0	+3.3	5.0	5.0	1.8, +2.8	3.3	3.3	+5.0, +3.3, +15.0, -10.0	+5.0, +3.3, +15.0, -10.0	3.3, 5.0, 15.0, -12	3.3, 5.0, 15.0, -12	3.3, 5.0	3.3	3.3, 5.0, 15.0, -15.0
	Display Power (TYP.)	Watts	15 μW	15 μW	0.0225	0.00231	NA	NA	0.04W	.0292	.049	0.02285	0.02285	0.020	0.022	0.1485	0.1485	0.0844
	Backlight System		NA	NA	Serial (4-LED)	Serial (4-LED)	NA	NA	Serial (6-LED)	Serial (7-LED)	Serial (7-LED)	Serial (6-LED)	Serial (6-LED)	Serial (6-LED)	Serial (7-LED)	Serial (7-LED)	Serial (7-LED)	Serial (9-LED)
	Backlight Life	Hrs	NA	NA	TBD	TBD	NA	NA	TBD	TBD	TBD	10000	10000	10000/5000	TBD	TBD	TBD	50,000+
	Backlight Power (TYP.)	Watts	NA	NA	0.123	0.256	NA	NA	0.384	0.448	0.448	0.384	0.324	0.384	0.440	0.446	0.446	0.486
	Total Power (TYP.)	Watts	15 μW	15 μW	0.1455	0.25831	TBD	TBD	0.423	0.4772	0.497	0.40685	0.34685	0.404	0.462	0.5945	0.5945	0.5704
Interface	Signal Type	SPI Bus	SPI Bus	Digital RGB		SPI Bus	SPI Bus	Digital/CPU Interface	Digital RGB	Digital RGB/Serial	Digital RGB	Digital RGB	Digital RGB	Digital RGB	Digital RGB	Digital RGB	Digital RGB	
Support ICs	ASIC			Integrated								LZ9FC23	LZ9FC23	LZ9FC23	LZ9FC23		LZ9FC23	
	CSIC			Integrated						Included	Included	Included	Included	IR3E3476			IR3E3076 (Pb-free)	
Specifications	Number	LCY-12T09302A	LCY-12T09303A	LCP-05032A	LD-19X15D	LCY-12T09601A	LCY-12T09602A	LCY-09089C	LCY-W-07X04	LD-20811A	LC-21508A	LD-21Y08A	LCP-212508/LCP-21251B	LCP-04030B	LCP-06008A	LCP-06014A	LCP-05007	
	Date			8/18/09	3/7/08	6/9/09	6/9/09	12/4/09	10/24/07	9/2/08	5/26/09	12/1/09	5/15/09	9/10/04	3/1/06	7/20/06	5/20/05	

	Part Number	LQ038Q50R01	LS038Y7DX01	LQ043T1D601	LQ043T3DX02/04	LQ043T3D601/02	LQ050Q50R01	LQ050W1L0A0	LQ050W1CL18	LQ057Q30C12	LQ057Q30G01/02	LQ057V30601	LQ057V30G02	LQ064V30601	LQ064V30G02	LQ065Y50G02	LQ065Y50G03	
Key Features	Resolution	QVGA	WVGA	WQVGA	WQVGA ASV	WQVGA	QVGA	WSVGA	WSVGA	QVGA/VGA	QVGA	VGA	VGA	VGA	VGA	WVGA	WVGA	
	Status	Factory Transition		Production	Production	Production	Factory Transition	Production	Production	Production	Production	Production	Production	Production	Production	MP 1Q 2011	Not New Designs	
	Comments		TS	TS	No TS	TS/No TS	No TS	TS		WVA, No TS	TS/No TS	WVA, No TS	Strong 2	LowCost, No TS		No TS	No TS	
	Panel Mode	Transmissive	Transflective	Transmissive	Transmissive	Transmissive	Transmissive	Transmissive	Transmissive	Transmissive	Transmissive	Transmissive	Transmissive	Transmissive	Transmissive	Transmissive	Transmissive	
RoHS	Pb - Free	RoHS		RoHS	RoHS/Unknown	RoHS	RoHS	RoHS	RoHS	RoHS	RoHS	RoHS	RoHS	RoHS	RoHS	Not confirmed		
Mechanical	Nominal Diagonal	Inch	3.8" (9.6 cm)	3.8" (9.66 cm)	4.3" (10.9 cm)	4.3" (10.9 cm)	4.3" (10.9 cm)	4.96" (12.6 cm)	4.96" (12.6 cm)	5" (12.6 cm)	5.7" (14.4 cm)	5.7" (14.4 cm)	5.7" (14.4 cm)	5.7" (14.4 cm)	6.4" (16 cm)	6.4" (16 cm)	6.5" (16.4 cm)	6.5" (16.4 cm)
	Outline Dimensions	mm	117.5 × 69.4 × 13.4	54.6 × 93.0 × 2.0	105.5 × 67.2 × 5.0	105.5 × 67.2 × 3.9	105.5 × 67.2 × 5.0	119.4 × 89.1 × 12.7	119.3 × 76.6 × 5.6	76.3 × 119 × 4.5	144 × 104.6 × 13	144.0 × 104.6 × 12.3	144.0 × 104.6 × 12.3	144.0 × 104.6 × 13	161.3 × 117.0 × 12.0	161.3 × 117.0 × 12.0	160.0 × 94.0 × 8.2	157.4 × 89.7 × 7.5
	Active Area	mm	78.72 × 53.64	49.68 × 82.8	95.04 × 53.856	95.04 × 53.856	95.04 × 53.856	101.28 × 74.76	109.1 × 63.9	109 × 64	115.2 × 86.4	115.2 × 86.4	115.2 × 86.4	115.2 × 86.4	130.56 × 97.92	130.56 × 97.92	144.0 × 78.24	144.0 × 79.2
	Pixel Format		320 × 240	480 × 800	480 × 272	480 × 272	480 × 272	320 × 240	1024 × 600	1024 × 600	320 × 240	320 × 240	640 × 480	640 × 480	640 × 480	640 × 480	800 × 480	800 × 480
	Pixel Pitch	mm	0.224 × 0.224	0.1035 × 0.1035	0.198 × 0.198	0.198 × 0.198	0.198 × 0.198	0.312 × 0.312	0.106 × 0.106	0.106 × 0.106	0.360 × 0.360	0.360 × 0.360	0.180 × 0.180	0.180 × 0.180	0.204 × 0.204	0.204 × 0.204	0.163 × 0.163	0.163 × 0.163
	Weight	g	125	20	62	50	65	170	72	52	220	255/210	250	250	280	280	185	180
	Surface Treatment		AG + LR		AG, 2H		AG, 2H/AG	AG + LR	AG + LR	2H	3H		AG	AG	AG	AG	AG	AG
Environmental	Operating Temp	°C	-30 to +85	-20 to +60	-10 to +70	-10 to +50	-10 to +70	-30 to +85	-30 to +85	-25 to +60	-30 to +80	-30 to +70	-30 to +80	-30 to +80	-30 to +80	-30 to +80	-30 to +85	-30 to +85
	Storage Temp	°C	-40 to +95	-30 to +70	-30 to +85	-25 to +60	-30 to +85	-40 to +95	-40 to +95	0 to +60	-30 to +80	-30 to +70	-30 to +80	-30 to +80	-30 to +80	-30 to +80	-40 to +85	-40 to +85
Electronics	Response Time (TYP.)	ms	80	80	60	60	29	80	30	30	29	40	29	29	29	29	80	80
	Clock Frequency (TYP.)	Mhz	7.5		9.0	9	8.54/9.0	6.3	54.0	48	25.18	6.3	25.2	25.2	25.2	25.2	33.2	33.2
Optical	Display Mode		Normally White	Normally Black	Normally White	Normally Black	Normally White	Normally White	Normally White	Normally White	Normally White	Normally White	Normally White	Normally White	Normally White	Normally White	Normally White	
	Display Orientation				UD/LR	UD/LR	UD/LR	UD/LR	UD/LR	UD/LR	UD/LR	UD/LR	UD/LR	UD/LR	UD/LR	UD/LR	UD/LR	
	Optimum View Angle		6:00	Symmetrical	6:00	Symmetrical	6:00	6:00	6:00	6:00	12:00	12:00	12:00	12:00	6:00	12:00	12:00	6:00
	Viewing Angle - side to side		130	160	120	160	160	130	140	140	130	160	160	160	140	140	130	120
	Viewing Angle - 12 o'clock		40	80	40	80	60	55	50	50	65	80	80	80	40	70	65	40
	Viewing Angle - 6 o'clock		65	80	60	80	80	65	60	60	40	65	70	70	70	40	60	55
	Bits per Color		6	6	8	8	6	6	6	6	6	6	6	6	6	6	6	6
	Transmissive CR		100	500	300	400	900	100	450	450	350	500	600	600	350	350	100	300
	Brightness	nits	450	300	500	165/320	400/480	380	280	430	500	320/400	400	400	350	325	500	500
	Reflective CR		NA	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Reflectance	%	NA	1.5%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Electrical	Display Voltages (TYP.)	VDC	3.3		3.3, 5.0	2.5, 5.0	3.15	3.3	3.3	3.3	3.3	3.3	3.3, 12.0	3.3 or 5.0	3.3/5.0	3.3, 5.0, 15.0, -17.4	3.3, 5.0, 15.0, -12	
	Display Power (TYP.)	Watts	0.46		0.0416	0.053	0.394/0.726	0.462	TBD	.4	0.429	0.066	0.726	0.726	1.0	1.96	5.00	5.00
	Backlight System		1 × CCFT	LED	Series (9-LED)	Series (7-LED)	Series (9-LED)	1 × CCFT	LED	LED	1 × CCFT	4 Series (5 LEDs)	1 × CCFT	LED	2 × CCFT	2 × CCFT	1 × CCFT	1 × CCFT
	Backlight Life	Hrs	20,000		TBD	TBD	TBD	20,000	10,000 min		50,000	30,000	50,000	50,000	50,000	50,000	TBD	TBD
	Backlight Power (TYP.)	Watts	2.9	0.448	0.576	0.54/0.861	0.576/1.107	3.69	TBD	9.925	3.5	1.28	3.45	3.6	3.70	3.70	TBD	TBD
	Total Power (TYP.)	Watts	3.36		0.6176	0.593/0.914	0.97/1.1796	4.152	TBD	1.325	3.929	1.346	4.176	4.326		5.657	TBD	TBD
Interface	Signal Type	Digital RGB	Digital RGB	Digital RGB	Digital RGB	Digital RGB	Digital RGB	LVDS	LVDS	Digital RGB	Digital RGB	Digital RGB	Digital RGB	Digital RGB	Digital RGB	Digital RGB	Digital RGB	
Support ICs	ASIC						Not needed			NA							LQ0D2C2291	LQ0D2C2291
	GSIC						Not needed			NA							Included	Included
Specifications	Number	LCY-00044D	LCP-2209004	LCY-W-06602A	LCM-05042/ LCM-07021	LD-20517A/ LD-20503A	LD-21712A	LD-19267B	LD-20X57A-9	LA1-05016E	LD-21604A/ LD21605A	LA1-07014A	LD-20901A	LA1-04032E	LA1-05005B	LCY-05033	LCY-07040	
	Date	8/4/05	2/17/09	7/21/06	12/28/05 5/15/07	6/12/08 5/13/08	7/31/09	1/22/08	10/4/08	9/11/08	6/15/09	5/29/07	9/5/08	11/2/06	6/28/06	6/8/05	6/28/07	

	Part Number	LQ070Y3D61A	LQ070Y3D63A	LQ070Y3D63B	LQ070Y5D62D	LQ070Y3L64A	LQ075V3D601	LQ080V3D601	LQ084S3D601	LQ084S3L601	LQ084V1D641	LQ084V3D601	LQ084V3D602	LQ085Y3D606	LQ10036A	LQ100421	LQ104S1D62A	
Key Features	Resolution	WVGA	WVGA	WVGA	WVGA	WVGA	VGA	VGA	SVGA	SVGA	VGA	VGA	VGA	WVGA	VGA	VGA	SVGA	
	Status	Production	MP 3Q 2009	MP 2Q 2009	Production	Production	Production	Not New Designs	Production	Production	Production	Production	Production	Production	MP Aug 2009	Not for New Design		
	Comments	No TS	No TS/TS	TS		No TS	Kyocera Match								Replace LQ10D36B			
	Panel Mode	Transmissive	Transmissive	Transmissive	Transmissive	Transmissive	Transmissive	Transmissive	Transmissive	Transmissive	Transmissive	Transmissive	Transmissive	Transmissive	Transmissive	Transmissive	Transmissive	
RoHS	Pb - Free	RoHS		RoHS	RoHS		RoHS	RoHS	RoHS	RoHS	RoHS	RoHS	RoHS	RoHS	RoHS	RoHS	RoHS	
Mechanical	Nominal Diagonal	Inch	7.0" (17.8 cm)	7.0" (17.8 cm)	7.0" (17.8 cm)	6.95" (17.7 cm)	7.0" (17.8 cm)	7.5" (19.0 cm)	8.0" (20.3 cm)	8.4" (21 cm)	8.4" (21 cm)	8.4" (21 cm)	8.4" (21 cm)	8.5" (21.6 cm)	10.4" (26 cm)	10.4" (26 cm)	10.4" (26 cm)	
	Outline Dimensions	mm	163.2 × 104.0 × 6.2	163.2 × 104.0 × 3.9	163.2 × 104.0 × 5.0	167.0 × 93.0 × 7.2	163.2 × 104.0 × 3.9	184.0 × 139.8 × 12.7	183.0 × 141.0 × 14.0	199.5 × 149.5 × 11.6	199.5 × 149.5 × 11.6	221.0 × 152.4 × 12.0	199.5 × 149.5 × 11.6	199.5 × 149.5 × 11.6	212 × 134 × 12.5	246.5 × 179.4 × 11.0	265.0 × 195 × 11.5	246.5 × 179.4 × 15.4
	Active Area	mm	152.4 × 91.4	152.4 × 91.4	152.4 × 91.4	156.0 × 82.8	152.4 × 91.4	151.68 × 113.76	162.2 × 121.7	170.4 × 127.8	170.4 × 127.8	170.9 × 128.2	170.9 × 128.16	170.88 × 128.16	184.8 × 110.88	211.2 × 158.4	211.2 × 158.4	211.2 × 158.4
	Pixel Format		800 × 480	800 × 480	800 × 480	800 × 480	800 × 480	640 × 480	640 × 480	800 × 600	800 × 600	640 × 480	640 × 480	640 × 480	800 × 480	640 × 480	640 × 480	800 × 600
	Pixel Pitch	mm	0.1905 × 0.1905	0.1905 × 0.1905	0.1905 × 0.1905	0.1905 × 0.1725	0.1905 × 0.1905	0.237 × 0.237	0.2535 × 0.2535	0.213 × 0.213	0.213 × 0.213	0.267 × 0.267	0.267 × 0.267	0.267 × 0.267	0.231 × 0.231	0.330 × 0.330	0.330 × 0.330	0.264 × 0.264
	Weight	g	TBD	135/TBD	TBD	196	135	365	390	405	TBD	430	TBD	400	370	520	635	620
	Surface Treatment		AG 2H	AG 2H	AG 2H		AG 2H	AG 3H	AG	AG	AG	AG 3H	AG	AG	AG	AG 3H		AG 3H
Environmental	Operating Temp	°C	-10 to +70	-20 to +50	-20 to +50	-30 to +85	-20 to +60	-30 to +80	0 to +70	-30 to +80	-30 to +80	0 to +63	-30 to +80	-30 to +80	0 to +75	-10 to +65	0 to +55	-30 to +80
	Storage Temp	°C	-30 to +80	-30 to +70	-30 to +70	-30 to +85	-30 to +70	-30 to +80	-25 to +70	-30 to +80	-30 to +80	-25 to +70	-30 to +80	-30 to +80	-25 to +75	-30 to +70	-25 to +70	-30 to +80
Electronics	Response Time (TYP)	ms	TBD	35	35	80	35	26	80	30	30	35	29	26	29	35	60	35
	Clock Frequency (TYP)	Mhz	33.26	33	33	33.3	33.3	25.2	25.18	40	40	25.18	25.18	25.18	33.26	25.18	25.2	40.0
Optical	Display Mode		Normally White	Normally White	Normally White	Normally White	Normally White	Normally White	Normally White	Normally White	Normally White	Normally White	Normally White	Normally White	Normally White	Normally White	Normally White	
	Display Orientation					UD/LR	UD/LR	UD/LR	UD/LR	UD/LR	UD/LR	UD/LR	UD/LR	UD/LR	UD/LR	UD/LR	UD/LR	
	Optimum View Angle		6:00	6:00	6:00	12:00	6:00	6:00	6:00	6:00	6:00	12:00	6:00	6:00	6:00	6:00	6:00	6:00
	Viewing Angle - side to side		130	130	130	130	130	140	130	160	120	140	120	130	110	140	140	140
	Viewing Angle - 12 o'clock		50	50	50	60	50	60	65	45	55	60	55	55	40	50	40	50
	Viewing Angle - 6 o'clock		60	60	60	50	60	65	55	80	65	50	60	60	60	60	70	60
	Bits per Color		6	8	8	6	8	6	12	6	8	6	6	6	6	6	6	6
	Transmissive CR		TBD	300	300	100	400	600	250	320	600	600	600	600	250	500	300	500
	Brightness	nits	300	350	280		350	400	380	350	400	300	400	400	260	200	300	350
	Reflective CR		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Reflectance	%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Electrical	Display Voltages (TYP)	VDC	3.30	3.30	3.30	5.0, 3.3, 15.0, -12.0	3.3	3.30	3.3 or 5.0	3.3	3.3	3.3 or 5.0	3.3	3.3	3.3	3.3, 5	3.3, 5.0	3.3, 5.0
	Display Power (TYP)	Watts	0.46	0.46	0.46		0.528	0.61	1.10	1.42	TBD	1.35	TBD	0.66	0.99	1.40	1.40	1.99
	Backlight System		3 parallel (8-LED)	3 parallel (8-LED)	3 parallel (8-LED)	1 × CCFT	3 parallel (8-LED)	1 × CCFT	1 × CCFT	2 × CCFT	2 × CCFT	1 × CCFT	2 × CCFT	Series (6-LED)	1 × CCFT	1 × CCFT	2 × CCFT	2 × CCFT
	Backlight Life	Hrs	10,000 min		10,000 min	10,000 min	10,000 MIN.	50,000	10,000	50,000	50,000	50,000	50,000	50,000	25,000	50,000	50,000	TBD
	Backlight Power (TYP)	Watts	1.3	1.54	1.54	3.36	1.54	5.10	5.10	4.6	4.6	4.1	4.6	3.96	4.8	3.0	5.6	5.6
	Total Power (TYP)	Watts	1.76	2.0	2.0		2.07	5.71	6/20	6.02	TBD	5.45	TBD	4.62	5.79	4.40	7.00	7.80
Interface	Signal Type	Digital RGB	Digital RGB	Digital RGB	Digital RGB	LVDS	Digital RGB	Digital RGB	Digital RGB	LVDS	Digital RGB	Digital RGB	Digital RGB	Digital RGB on FPC	Digital RGB	Digital RGB	Digital RGB	
Support ICs	ASIC		NA	NA	NA	LZ9JG17												
	GSIC						NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Specifications	Number		LD-19X6BE	LD-21212A	LD-21153A	LCY-08015	LD-21705A	LCY-03094B	LCY-02131A	LCY-03115D	LA1-06073A	LD-20524B	LA1-06061A	LD-20706A	LA-19950A	LD-20404A	LD-14304D	LD-20903B
	Date		3/12/08	2/17/09	1/23/09	2/14/08	7/10/09	3/29/05	7/13/05	4/11/06	2/9/07	9/25/08	2/20/07	7/12/08	9/5/07	4/21/08	9/27/05	12/2/08



	Part Number	LQ104S1D631	LQ104S1D661	LQ104S1L62A	LQ104S1L631	LQ104S1L661	LQ104V1D621	LQ104V1D65A	LQ104V1D661	LQ104V1D662	LQ104V1L661	LQ104V1D62K	LQ121S1D0643	LQ121S1D661	LQ121S1L642	LQ121S1L661	LQ121S1L662	
Key Features	Resolution	SVGA	SVGA-Strong 2	SVGA	SVGA	SVGA-Strong 2	VGA	VGA	VGA	VGA	VGA	VGA	SVGA	SVGA-Strong 2	SVGA	SVGA-Strong 2	SVGA	
	Status	Production	Production	MP 1Q 2010	Production	Production	Production	Production	Production	MP Aug 2008	Production	MP Nov 2009	PCN Reissue	Production	PCN Reissue	Production	MP 4Q 2009	
	Comments	NEC NL80B0BC26			LVDS Input	LVDS Input	Digital Input	Strong 2 Tech	LED Backlight	Strong 2 Tech					Anodized Bezel	LVDS	LVDS	
	Panel Mode	Transmissive	Transmissive	Transmissive	Transmissive	Transmissive	Transmissive	Transmissive	Transmissive	Transmissive	Transmissive	Transmissive	Transmissive	Transmissive	Transmissive	Transmissive	Transmissive	
RoHS	Pb - Free	RoHS	RoHS	RoHS	RoHS	RoHS	RoHS	RoHS	RoHS	RoHS	RoHS	RoHS	RoHS	RoHS	RoHS	RoHS	RoHS	
Mechanical	Nominal Diagonal	Inch	10.4" (26 cm)	10.4" (26 cm)	10.4" (26 cm)	10.4" (26 cm)	10.4" (26 cm)	10.4" (26 cm)	10.4" (26 cm)	10.4" (26 cm)	10.4" (26 cm)	10.4" (26 cm)	12.1" (31 cm)	12.1" (31 cm)	12.1" (31 cm)	12.1" (31 cm)	12.1" (31 cm)	
	Outline Dimensions	mm	243 × 183.8 × 11.5	246.5 × 179.4 × 15.0	246.5 × 179.4 × 15.5	243 × 183.8 × 11.5	246.5 × 179.4 × 15.5	265.0 × 195.0 × 11.5	246.5 × 179.4 × 14.2	246.5 × 179.4 × 13.7	246.5 × 179.4 × 12.5	246.5 × 179.4 × 13.7	246.5 × 179.4 × 15.5	276.0 × 209.0 × 11.0	276.0 × 209.0 × 11.0	276.0 × 209.0 × 11.0	276.0 × 209.0 × 11.0	276.0 × 209.0 × 11.0
	Active Area	mm	211.2 × 158.4	211.2 × 158.4	211.2 × 158.4	211.2 × 158.4	211.2 × 158.4	211.2 × 158.4	211.2 × 158.4	211.2 × 158.4	211.2 × 158.4	211.2 × 158.4	211.2 × 158.4	246.0 × 184.5	246.0 × 184.5	246.0 × 184.5	246.0 × 184.5	246.0 × 184.5
	Pixel Format		800 × 600	800 × 600	800 × 600	800 × 600	800 × 600	640 × 480	640 × 480	640 × 480	640 × 480	640 × 480	640 × 480	800 × 600	800 × 600	800 × 600	800 × 600	800 × 600
	Pixel Pitch	mm	0.264 × 0.264	0.264 × 0.264	0.264 × 0.264	0.264 × 0.264	0.264 × 0.264	0.330 × 0.330	0.330 × 0.330	0.330 × 0.330	0.330 × 0.330	0.330 × 0.330	0.330 × 0.330	0.3075 × 0.3075	0.3075 × 0.3075	0.3075 × 0.3075	0.3075 × 0.3075	0.3075 × 0.3075
	Weight	g	600	620	620	600	620	700	620	620	580	620	620	660	800	660	800	750
	Surface Treatment		AG	AG	AG	AG 3H	AG	AG	AG 3H	AG	AG 3H	AG	AG 3H	AG 3H	AG	AG 3H	AG	AG 3H
Environmental	Operating Temp	°C	-30 to +80	-30 to +80	-30 to +80	-30 to +80	-30 to +80	-10 to +65	-10 to +65	-30 to +80	-30 to +80	-30 to +80	0 to +70	-10 to +65	-30 to +80	-10 to +65	-30 to +80	-30 to +80
	Storage Temp	°C	-30 to +80	-30 to +80	-30 to +80	-30 to +80	-30 to +80	-30 to +70	-30 to +70	-30 to +80	-30 to +80	-30 to +80	-20 to +70	-30 to +70	-30 to +80	-30 to +70	-30 to +80	-30 to +80
Electronics	Response Time (TYP.)	ms	35	35	35	35	35	60	35	35	35	35	25	35	35	35	35	
	Clock Frequency (TYP.)	Mhz	40.0	40.0	40.0	40.0	40.0	25.2	25.2	25.18	25.2	25.2	25.18	40.0	40.0	40.0	40.0	
Optical	Display Mode		Normally White	Normally White	Normally White	Normally White	Normally White	Normally White	Normally White	Normally White	Normally White	Normally White	Normally Black	Normally White	Normally White	Normally White	Normally White	
	Display Orientation		UD/LR	UD/LR	UD/LR	UD/LR	UD/LR	UD/LR	UD/LR	UD/LR	UD/LR	UD/LR	UD/LR	UD/LR	UD/LR	UD/LR	UD/LR	
	Optimum View Angle		6:00	6:00	6:00	6:00	6:00	6:00	6:00	6:00	6:00	6:00	Symmetrical	6:00	6:00	6:00	6:00	
	Viewing Angle - side to side		140	140	140	140	140	140	140	140	140	140	160	140	140	140	140	
	Viewing Angle - 12 o'clock		50	50	50	50	50	40	50	50	50	50	80	50	50	50	50	
	Viewing Angle - 6 o'clock		60	60	60	60	60	70	60	60	60	60	80	60	60	60	60	
	Bits per Color		6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
	Transmissive CR		500	500	500	500	500	300	500	600	600	600	450	450	600	450	600	
	Brightness	nits	350	420	350	350	420	350	350	450	550	450	380	370	450	370	450	
	Reflective CR		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Reflectance	%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Electrical	Display Voltages (TYP.)	VDC	3.3, 5.0	3.3, 5.0	3.3	3.3, 5.0	3.3, 5.0	3.3, 5.0	3.3, 5.0	3.3, 5.0	3.3, 5.0	3.3, 5.0	3.3/5.0	3.3, 5.0	3.3, 5.0	3.3, 5.0	3.3, 5.0	
	Display Power (TYP.)	Watts	1.00	1.00	1.02	1.03	1.03	1.40	1.16	TBD	0.66	TBD	0.73	1.254	1.42	1.254	1.254, 1.15	
	Backlight System		2 × CCFT	2 × CCFT	2 × CCFT	2 × CCFT	2 × CCFT	2 × CCFT	2 × CCFT	2 × CCFT	3 Series (6 LEDs)	2 × CCFT	2 × CCFT	2 × CCFT	2 × CCFT	2 × CCFT	2 × CCFT	
	Backlight Life	Hrs	50,000	50,000	TBD	50,000	50,000	50,000	50,000	50,000	50,000 min	50,000	50,000	TBD	50,000	TBD	50,000	
	Backlight Power (TYP.)	Watts	5.6	7.0	5.6	5.6	7.0	5.6	5.6	5.6	4.5	5.6	5.6	7.0	7.0	7.0	4.0	
	Total Power (TYP.)	Watts	6.60	8.00	6.62	6.63	8.03	6.63	6.76	TBD	5.12	6.91	6.33	8.25	8.42	8.25	8.254, 8.15	
Interface	Signal Type	Digital RGB	Digital RGB	LVDS	LVDS	LVDS	Digital RGB	Digital RGB	Digital RGB	Digital RGB	Digital RGB	Digital RGB	Digital RGB	Digital RGB	Digital RGB	LVDS	LVDS	
Support ICs	ASIC																	
	GSIC		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Specifications	Number		LD-19603A	LD-18203A	LD-20905B	LD-19Y02A	LD-19604A	LD-13708D	LD-20407B	LD-17Y59A	LD-20209A	LD-18Z35A	LD-21805A	LD-20711A	LD-18121A	LD-20712A	LD-18123A	
	Date		6/08/07	2/7/06	12/12/08	11/16/07	6/8/07	12/13/05	10/15/08	11/16/05	2/7/08	12/27/06	8/7/09	7/28/08	1/27/06	7/28/08	1/27/06	

	Part Number	LQ121K1L611	LQ150X1L645	LQ150X1L655	LQ150X1L671	LQ150X1L681	LQ150X1L682	LQ150X1L6B1	LQ150X1LW73	LQ190E1LW43K	LQ190E1LW51	LK40003LA14	
Key Features	Resolution	WXGA	XGA	XGA	XGA	XGA	XGA	XGA	XGA	SXGA	SXGA	1920 × 1080	
	Status	Production	Production	Production	Production	Production	Production	Production	MP Q4 2009	MP 1Q 2010	MP 2Q 2010	MP 4Q 2009	
	Comments	LVDS	PSWG Compliant	PSWG Compliant	LVDS (6, 8)	LVDS	LVDS	LVDS	Preliminary Spec.		Preliminary Spec.	Preliminary Spec.	
	Panel Mode	Transmissive	Transmissive	Transmissive	Transmissive	Transmissive	Transmissive	Transmissive	Transmissive	Transmissive	Transmissive		
RoHS	Pb - Free	RoHS	RoHS	RoHS	RoHS	RoHS	RoHS	RoHS	RoHS	RoHS	RoHS	RoHS	
Mechanical	Nominal Diagonal	Inch	12.1" (31 cm)	15" (38 cm)	15" (38 cm)	15" (38 cm)	15" (38 cm)	15" (38 cm)	15" (38 cm)	19.0" (48 cm)	19.0" (48 cm)	40.0" (101.609 cm)	
	Outline Dimensions	mm	278.0 × 184.0 × 11.3	326.5 × 253.5 × 11.2	326.5 × 253.5 × 11.2	326.0 × 252.0 × 11.2	326.0 × 252.0 × 11.2	326.0 × 252.0 × 13.7	331.6 × 254.76 × 12.5	331.6 × 254.76 × 12.5	404.2 × 330.0 × 22.0	404.2 × 330.0 × 22.0	952.0 × 551.0 × 50.8
	Active Area	mm	261.12 × 163.2	304.1 × 228.1	304.1 × 228.1	304.1 × 228.1	304.1 × 228.1	304.1 × 228.1	304.1 × 228.1	304.1 × 228.1	376.32 × 301.056	376.32 × 301.056	885.6 × 498.15
	Pixel Format		1280 × 800	1024 (×3) × 768	1024 (×3) × 768	1024 (×3) × 768	1024 (×3) × 768	1024 (×3) × 768	1024 (×3) × 768	1024 (×3) × 768	1280 × 1024	1280 × 1024	1920 × 1080
	Pixel Pitch	mm	0.204 × 0.204	0.297 × 0.297	0.297 × 0.297	0.297 × 0.297	0.297 × 0.297	0.297 × 0.297	0.297 × 0.297	0.297 × 0.297	0.294 × 0.294	0.294 × 0.294	0.46 × 0.46
	Weight	g	640	1000	1050	1000	1000	1200	1200	1300	3200	TBD	TBD
	Surface Treatment		AG 3H	AG 3H	AG	AG	AG 3H	AG 3H	AG	AG 3H	AG		AG 3H
Environmental	Operating Temp	°C	0 to +70	0 to +60	0 to +60	0 to +50	0 to +60	0 to +60	0 to +60	0 to +50	0 to +60	0 to +60	0 to +50
	Storage Temp	°C	-25 to +70	-20 to +60	-20 to +60	-25 to +60	-25 to +60	-25 to +60	-30 to +70	-25 to +60	-25 to +60	-25 to +60	-25 to +60
Electronics	Response Time (TYP)	ms	35	8	8	8	8	8	30	25	12	12	6
	Clock Frequency (TYP)	Mhz	83.5	65.0	65.0	65.0	65.0	65.0	65.0	65.0	54.0	54.0	74.25
Optical	Display Mode		Normally White	Normally White	Normally White	Normally White	Normally White	Normally White	Normally White	Normally Black	Normally Black	Normally Black	Normally Black
	Display Orientation		U/D	U/D	U/D	U/D	U/D	U/D					
	Optimum View Angle		6.00	6.00	6.00	6.00	6.00	6.00	6.00	Symetrical	Symetrical	Symetrical	Symetrical
	Viewing Angle - side to side		160	120	120	120	160	120	120	170	170	170	176
	Viewing Angle - 12 o'clock		70	45	45	45	55	45	55	85	85	85	88
	Viewing Angle - 6 o'clock		70	55	55	55	80	55	45	85	85	85	88
	Bits per Color		8, 6	6, 8	6, 8	6, 8	6, 8	6, 8	6, 8	6, 8	8	8	10
	Transmissive CR		400	550	550	550	550	550	350	600	900	900	3000
	Brightness	nits	370	250	350	250	350	350	600	350	400	1000	500
Reflective CR		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Reflectance	%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Electrical	Display Voltages (TYP)	VDC	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	5.0	5.0/12.0	3.3, 12.0, 24.0
	Display Power (TYP)	Watts	1.49	1.09	1.09	1.40	1.155	1.155	1.49	2.08	4.75	TBD	
	Backlight System		2 × CCFT	2 × CCFT	2 × CCFT	2 × CCFT	2 × CCFT	3 Series (10 LEDs)	4 × CCFT	4 × CCFT	6 × CCFT	LED	14 × CCFT
	Backlight Life	Hrs	50,000	50,000	50,000	50,000	50,000 TYP.	50,000 TYP.	50,000	50,000			60,000
	Backlight Power (TYP)	Watts	6.2	8.4	8.4	8.6	8.6	9.6	15.0	TBD	31.5	TBD	
Total Power (TYP)	Watts	7.69	9.49	9.49	10.00		10.76	16.49	TBD	36.3		0.0	
Interface	Signal Type		LVDS	LVDS	LVDS	LVDS	LVDS	LVDS	LVDS	LVDS	LVDS	LVDS	
Specifications	Number		LD-20109A	LD-19509A	LD-19512A	LD-19918A	LD-19919A	LD-20705A	LD-16Y04	LD-2154A	LD-21710A	LD-21151	LD-K20478
	Date		1/16/08	05/18/07	05/18/07	10/05/07	10/05/07	7/12/08	11/16/04	7/17/09	7/27/09	1/20/09	12/8/08

TFT Active Matrix LCD Display

LQ:	Thin Film Transistor
LS:	Continuous Grain Silicon (Low Temp Poly)
LK:	TFT Signage Displays

Display Input Type

A:	Analog RGB
B:	TFT Specific with Control and with Backlight
C:	Composite Video
E:	TFT Specific without Control and without Backlight
D:	Digital RGB
F:	TFT Specific with Control and without Backlight
G:	TFT Specific without Control and with Backlight
L:	LVDS
P:	P-Si I/F Analog
U:	QCIF I/F (Memory Bus Type)

Coating Treatment

A:	Anti-reflective Coating with Wide Viewing Angle
B:	Anti-reflective Coating without Wide Viewing Angle
C:	Clear Coat with Wide Viewing Angle
D:	Clear Coat without Wide Viewing Angle
G:	Anti-glare Coating with Wide Viewing Angle
H:	Anti-glare Coating without Wide Viewing Angle
N:	No Polarizer
R:	Anti-reflective and Anti-glare with Wide Viewing Angle
S:	Anti-reflective and Anti-glare without Wide Viewing Angle
W:	Anti-glare and Hard Coat with Wide Viewing Angle

Model No.

L

Q

1

5

0

X

1

L

G

N

2

A

Display Diagonal Screen Size

022:	2.2 inches	084:	8.4 inches
025:	2.5 inches	085:	8.5 inches
028:	2.8 inches	104:	10.4 inches
030:	3.0 inches	106:	10.6 inches
035:	3.5 inches	121:	12.1 inches
036:	3.6 inches	133:	13.3 inches
037:	3.7 inches	150:	15.0 inches
038:	3.8 inches	154:	15.4 inches
043:	4.3 inches	190:	19.0 inches
050:	5.0 inches	200:	20.0 inches
057:	5.7 inches	201:	20.1 inches
064:	6.4 inches	231:	23.1 inches
065:	6.5 inches	281:	28.1 inches
070:	7.0 inches	460:	46.0 inches
075:	7.5 inches	520:	52.0 inches
080:	8.0 inches	645:	64.5 inches

Display Format

A:	Non-PC Format	800 × 480
B:	QCIF	176 × 220
C:	PDA/Cellphone	
D:	HDTV Format	1920 × 1080
E:	SXGA	1280 × 1024
K:	HVGA	480 × 320
K:	Wide PC	1280 × 800
L:		2048 × 2048
M:	WUXGA	1600 × 1200
Q:	QVGA	320 × 240
S:	SVGA	800 × 600
T:	Wide QVGA	480 × 272
T:	Wide WXGA	1366 × 768
U:	UXGA	1600 × 1200
V:	VGA	640 × 480
W:	Wide PC	2048 × 2048
X:	XGA	1024 × 768
Y:	Wide VGA	800 × 480

Display Mode Type

1:	Transmissive OA
2:	Reflective OA
3:	Transmissive AV
4:	Reflective AV
5:	Transmissive AV Automotive
6:	Reflective AV Automotive
7:	Transflective OA
8:	Transflective AV
9:	Transflective AV Automotive
L:	LPS Transmissive 3 panel
M:	LPS Transmissive 3 panel
P:	OHP
Q:	LPS Reflective 1 panel
R:	LPS Reflective 3 panel
T:	AmSi Transmissive 1 panel

Display Model Number

Qxx: Automotive