



L2022



L2432



L2014



L4042



M4024

• SPECIFICATIONS :

Standard products : Products of optional specification

Character Format (character x line)	20 x 2	20 x 4	24 x 2	40 x 2	40 x 4	
Model	L2022	L2014	L2432	L4042	M4024	
Reflective	-	L201400J000S	L243200J000S	L404200J000S	M40240AS	
EL backlight	-	L201421J000S	L243221J000S	L404221J000S	M40249DWS	
LED backlight	-	L2014B1J000S	L2432B1J000S	L4042B1J000S	M40247DYS	
Reflective (wide temp)	L202200P000S	L201400L000S	L243200L000S	L404200L000S	M40240CS	
LED backlight (wide temp)	L2022B1P000S	L2014B1L000S	L2432B1L000S	L4042B1L000S	M40247JYS	
Character font	5x7 dots + cursor	5x7 dots + cursor	5x7 dots + cursor	5x7 dots + cursor	5x7 dots + cursor	
Module size (HxVxT) mm	Reflective	180,0 x 40,0 x 10,5	98,0 x 60,0 x 11,6	118,0 x 36,0 x 11,3	182,0 x 33,5 x 11,3	190,0 x 54,0 x 10,1
	EL backlight	180,0 x 40,0 x 10,5	98,0 x 60,0 x 11,6	118,0 x 36,0 x 11,3	182,0 x 33,5 x 11,3	190,0 x 54,0 x 10,1
	LED backlight	180,0 x 40,0 x 14,8	98,0 x 60,0 x 15,8	118,0 x 36,0 x 15,8	182,0 x 33,5 x 16,3	190,0 x 54,0 x 16,3
Viewing area (HxV) mm	149,0 x 23,0	76,0 x 25,2	94,5 x 17,8	154,4 x 15,8	147,0 x 29,5	
Character size (HxV) mm *1	6,00 x 9,66	2,95 x 4,15	3,20 x 4,85	3,20 x 4,85	2,78 x 4,27	
Dot size (HxV) mm	1,12 x 1,12	0,55 x 0,55	0,60 x 0,65	0,60 x 0,65	0,50 x 0,55	
Power supply voltage (VDD-VSS) V	+ 5 V	+ 5 V	+ 5 V	+ 5 V	+ 5 V	
Current consumption (mA,typ)	IDD	4,2	2,9	2,5	3,0	8,0
	ILC *4	2,6	1,2	0,5	1,0	3,0
Driving method (duty)	1/16	1/16	1/16	1/16	1/16	
Built-in LSI	KS0066	KS0066	KS0066	KS0066	KS0066	
	KS0063 or equivalent	MSM5839 or equivalent	KS0063 or equivalent	KS0063 or equivalent	MSM5839 or equivalent	
Operating temperature (°C)	normal temp.	-	0 to + 50	0 to + 50	0 to + 50	0 to + 50
	wide temp. *2	- 20 to + 70	- 20 to + 70	- 20 to + 70	- 20 to + 70	- 20 to + 70
Storage temperature (°C)	normal temp.	-	- 20 to + 60	- 20 to + 60	- 20 to + 60	- 20 to + 60
	wide temp.	- 30 to + 80	- 30 to + 80	- 30 to + 80	- 30 to + 80	- 30 to + 80
Weight (g, typ.)	Reflective	80	55	40	70	90
	EL backlight	-	60	45	75	105
	LED backlight	110	70	60	95	140
Inverters for EL	Model	-	5A	5A	5C	5D
	Power supply (V)	+ 5.0	+ 5.0	+ 5.0	+ 5.0	+ 5.0
	current consumption (mA) *3	-	45	45	25	80
LED backlight	Forward current consumption (mA)	320	240	150	260	480
	Forward input voltage (V,typ.)	+ 4,1	+ 4,1	+ 4,1	+ 4,1	+ 4,1

\*1 : Excluding cursor

H : Horizontal

V : Vertical

T : Thickness (max)

\*2 : With external temperature compensation

\*3 : Including EL backlight

\*4 : Based on normal temperature range