LJ320U27

Features

- **Display format:** 320 (W) × 256 (H) dots
- **Dot pitch ratio:** 1:1
- **Input signal level:** LS TTL level
- **Drive method:** P-P symmetric drive
- **Structure:** Baseplate
- **Net weight:** Approx. 400g
- **LJ320U26:** +5V, +15V type is also available.

Absolute maximum ratings

(Ta=25°C)

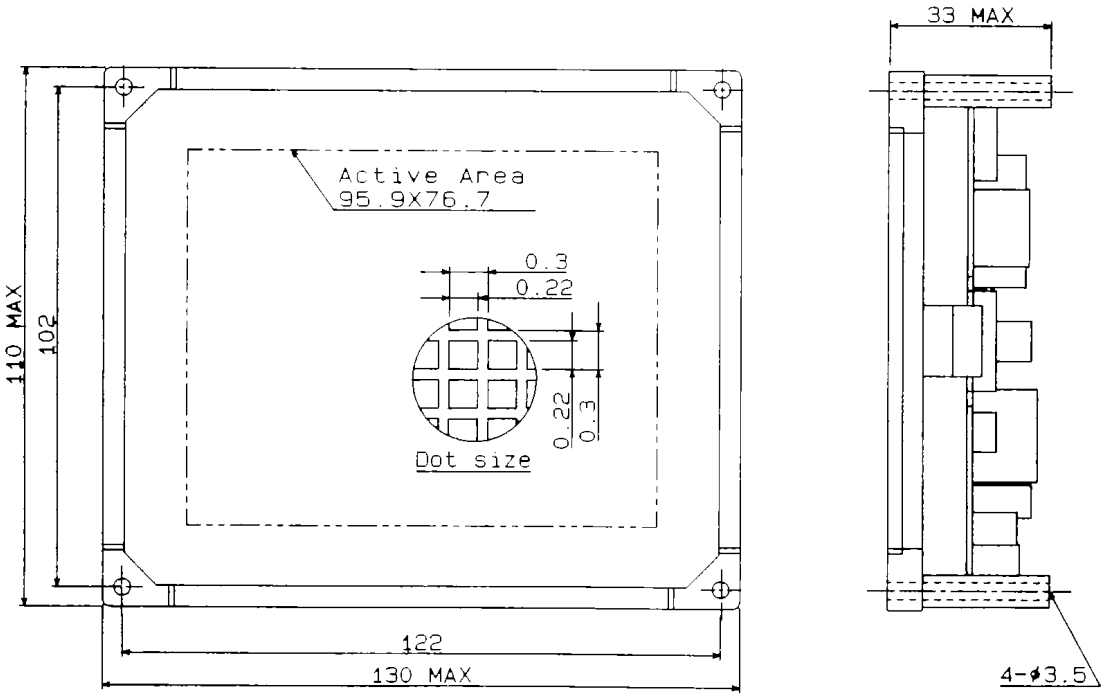
Parameter	Symbol	Rating	Unit
Interface signal (Logic "H")	V_{IH}	5.5	V
Interface signal (Logic "L")	V_{IL}	−0.5	V
Supply voltage (Logic)	V_L	7	V
Supply voltage (Panel drive)	V_D	14	V
Operating temperature	Topr	−5 to +65	°C
Storage temperature	Tstg	−40 to +80	°C

Corresponding connector:

HIF3A-16D-2.54R (HIROSE) or equivalents

Outline Dimensions

(Unit:mm)



Connector
HIF3F-16PA-2.54DSA (HIROSE ELECTRIC) or equivalents.

Electro-optical Characteristics

(Ta=25°C)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Supply voltage (Logic)	V_L		4.75	5.0	5.25	V
Supply current (Logic)	I_L	V_L=5V	(50)	—	(450)	mA
Supply voltage (Panel drive)	V_D		11.4	12.0	12.6	V
Supply current (Panel drive)	I_D	V_D=15V	(100)	—	(550)	mA
Power consumption	P_T	V_L=5V, V_D=15V	—	(5)	—	W
Luminance	B_{ON}	All dots lit	23	30	—	fL
Off luminance	B_{OFF}	All dots turned off	—	—	1.0	fL
Luminance distribution	ΔB_{DIS}	All dots lit	—	—	35	%

( ): Tentative

Interface Signals

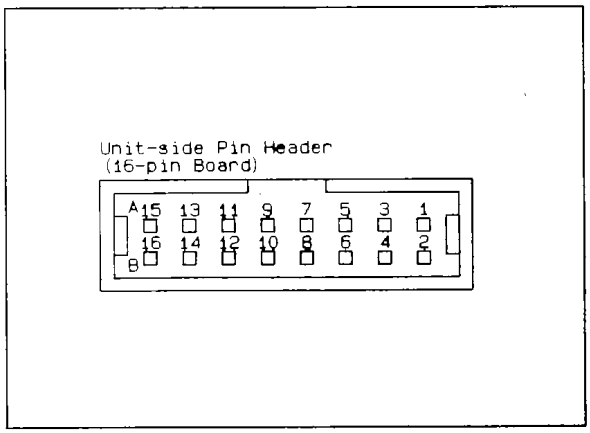
Pin No.	Symbol	Description
1	V_D	+12V
2	V_D	+12V
3	V_L	+5V
4	V_L	+5V
5	GND	Ground
6	GND	Ground
7	GND	Ground
8	GND	Ground
9	V.D	Vertical sync. signal
10	GND	Ground
11	H.D	Horizontal sync. signal
12	GND	Ground
13	CKD	Data transfer clock
14	GND	Ground
15	D_{IN}	Data signal
16	GND	Ground

Interface Timing Ratings

(Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit
Clock frequency	$1/T_{CL}$	4.4	—	16	MHz
Clock duty	$T_{CL}(H)/T_{CL}\times 100$	45	—	55	%
Horizontal sync. signal cycle time	T_H	60	—	75	μsec
Horizontal sync. signal blanking time	t_{HB}	2	—	—	μsec
Vertical sync. signal blanking time	t_{VB}	1	—	$N\times T_H$	μsec
Vertical sync. signal valid time	t_{VA}	$256\times T_H$	—	—	μsec
Frame frequency	$1/T_V$	50	60	63	Hz
Data signal delay time required	t_{DD}	0.01	—	T_{CL}	μsec
Horizontal sync. signal delay time required	t_{HD}	0.01	—	$T_{CL}/2$	μsec
Vertical sync. signal rise wait time	t_{VR}	4×60	—	—	μsec
Vertical sync. rise timing	t_{VH}	60	—	$T_H-t_{HB}+50$	μsec

Connector



Interface Timing Chart