Transmissive Reflective Illuminations Optimized

TRIO-064-LGTF

Product Specification

Low Power Consumption, No Extra Heat Generation.

TRIO-064-LGTF : 6.4" Direct Sunlight Readable TFT LCD

General Specifications

Module Size	145.5mm (H) X 111.5mm (V) X 6.0mm (D) mm
Effective Display Area	130.56mm (H) X 97.92mm (V) mm
Driver Element	a-si TFT Active Matrix
Dor Number	640(H) X 3(R,G,B) X 480(V)
Dot Pitch	0.068mm(H) × RGB × 0.204mm(V)
Interface Mode	NA
Pixel Arrangement	Stripe
Display Colors	262K(24 BIT) colors
Surface Treatment	High Efficiency AR coating (Haze <15)
Operating Temp	0 °C - 50 °C
Storage Temp	-20 °C - 60 °C
Weight	130 g(Typ)
RoHS Compliant	RoHS Compliance

INTERFACE SIGNALS

Pin	Symbol	Description
1	GND	Ground
2	VCC	Power (3.3V)
3	VCC	Power (3.3V)
4	GND	Ground
5	DCLK	Data Input Clock
6	DE	Data Enable Signal
7	VSYNC	Vertical Sync Signal
8	VSYNC	Horizontal Sync Signal
9	GND	Ground
10	R0	Red Data 0[LSB]
11	R1	Red Data 1
12	R2	Red Data 2
13	R3	Red Data 3
14	R4	Red Data 4
15	R5	Red Data 5[MSB]
16	GND	Ground
17	G0	Green Data 0[LSB]
18	G1	Green Data 1
19	G2	Green Data 2
20	G3	Green Data 3
21	G4	Green Data 4
22	G5	Green Data 5[MSB]
23	GND	Ground
24	B0	Blue Data 0[LSB]
25	B1	Blue Data 1
26	B2	Blue Data 2
27	B3	Blue Data 3
28	B4	Blue Data 4
29	B5	Blue Data 5[MSB]
30	GND	Ground

Note: 1. Specifications are subject to change without notice.
2. Original LCD Model Spec.:LG LB064V02-TD01

Optical Characteristics

	Symbol	Min	Typ	Max	Unit
Contrast Ratio	CR	300	400		
Brightness	B_{white}	250		300	cd/m^2
LCD Transmission	T				%
Response Time	t_r	-	10	20	msec
	tf	-	15	30	msec
Viewing Angle					
X Axis, Right	x_+	60	65		deg.
X Axis, Left	x_-	60	65		deg.
Y Axis, Up	y_+	45	50		deg.
Y Axis, Down	y_-	50	60		deg.
Outdoor Readability*					
Ambient light		10000	20000	30000	cd/m^2
Brightness gain (min)	35°	450	650	850	cd/m^2
Brightness gain (max)	35°	500	700	900	cd/m^2
Reflectance (%)	35°		1-2		%

Electrical Specifications

	Symbol	Value			Unit
		Min	Typ	Max	
Backlight					
Lamp Input Voltage	V_L	325	340	370	VRMS
Lamp Current	I_L	3	6	6.5	mARMS
Lamp On Voltage (25 C)	V_O				Vrms
Lamp On Voltage (0 C)	V_O				Vrms
Operating Frequency	Fg	40	60	80	KHz
Lamp Life Time	t_{LP}		20,000		hours
Power Consumption	P_W		2.04	2.25	W

	Symbol	Value			Unit
		Min	Typ	Max	
Module					
Power Supply Voltage	Vcc	3	3.3	3.6	V
Power Supply Current	Icc		160	210	m A
Ripple Voltage	Vpp				mV_{p-p}
Power Consumption	P_W		0.53	0.75	W

*Equivalent brightness under sunlight.

RayShine Photonics

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