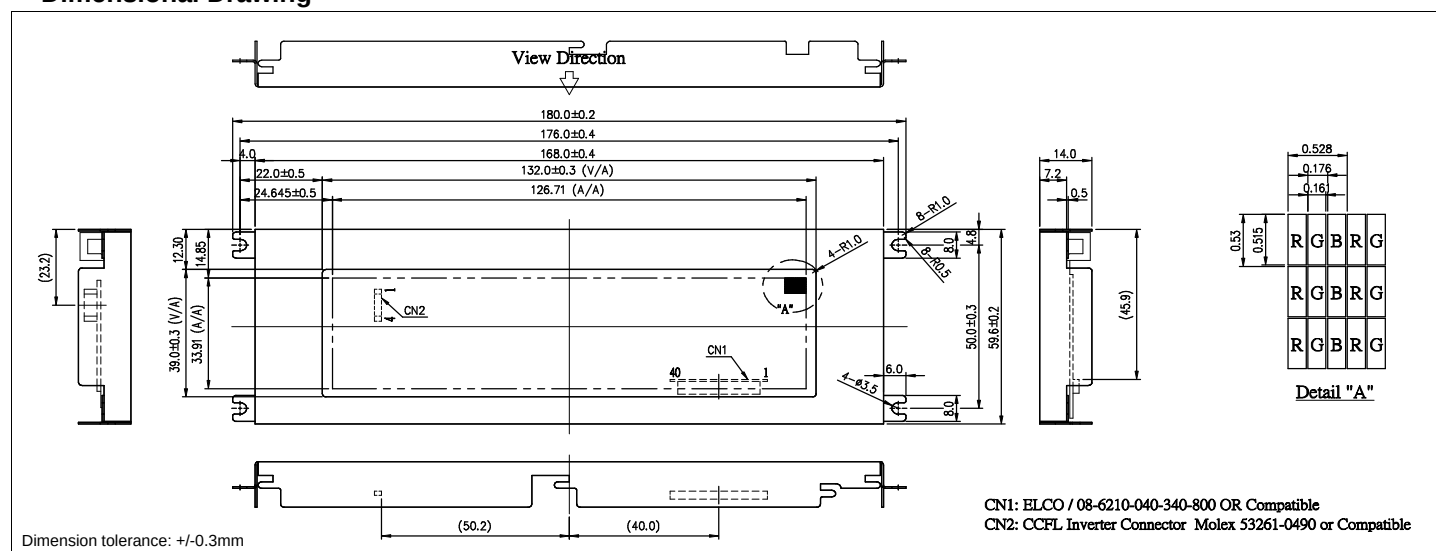


Dimensional Drawing

240 X 64 Dots Color Graphic



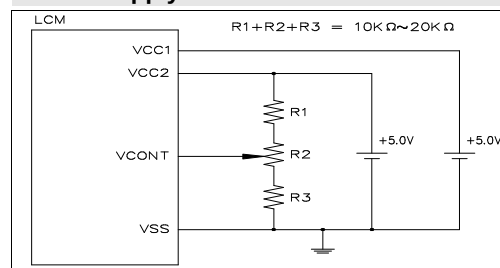
Features

Backlight.....	CCFL
Options.....	Color STN
	Bottom / Top Viewing
Built-in Controller.....	EPSON SED1353
Built-in Inverters.....	DC-to-DC, CCFL backlight

Physical Data

Module Size.....	180.0W x 59.6H x 14.0 mm
Viewing Area Size.....	132.0W x 39.0H mm
Dot Pitch.....	0.176W x 0.53H mm
Dot Size.....	0.161W x 0.515H mm
Weight.....	125g

Power Supply



Pin Connections

PIN NO.	SYMBOL	FUNCTION	
DATA CONNECTOR			
1	FG	Frame ground	
2	V _{SS}	-	Power Supply (0V, Ground)
3	V _{SS}		
4	V _{CC1}	-	Power supply for logic
5	V _{CC1}		
6	V _{CC2}	-	Power supply for LCD
7	V _{CC2}		
8	V _{CONT}	-	LCD Contrast Adjustment Voltage
9	IOCS	H/L	Control Register Chip Select Signal
10	IOWR	H/L	Control Register Write Signal
11	IORD	H/L	Control Register Read Signal
12	MEMCS	H/L	Memory Chip Select Signal
13	MEMWR	H/L	Memory Write Signal
14	MEMRD	H/L	Memory Read Signal
15	READY	H/L	Ready Signal
16	RESET	H/L	Reset, H : Reset
17~32	AB0 ~ AB15	H/L	Address Bus Line
33~40	DB0 ~ DB7	H/L	Data Bus Line
CCFL CONNECTOR			
1	VR	-	Power supply for the CCFL
2	N/C		No connection
3	N/C		No connection
4	CFL GND	-	Power supply for the CCFL

Absolute Maximum Ratings

PARAMETER	SYMBOL	MIN	MAX	UNIT
SUPPLY VOLTAGE	$V_{CC1}-V_{SS}, V_{CC2}-V_{SS}$	0	6.0	V
POWER SUPPLY FOR LCD	$V_{CONT}-V_{SS}$	0	V_{CC1}	V
INPUT VOLTAGE	V_{IN}	-0.3	$V_{CC1} + 0.3$	V
OPERATING TEMPERATURE	T_{OP}	0	50	°C
STORAGE TEMPERATURE	T_{STG}	-20	70	°C

Electrical Characteristics (VDD=5.0±0.25V 25°C)

PARAMETER	SYM	CONDITION	MIN	TYP	MAX	UNIT
OPERATING VOLTAGE	V_{CC1}, V_{CC2}	-	4.5	5.0	5.5	V
CONTRAST ADJ VOLTAGE	$V_{CONT}V_{SS}$	$T_a = 0^{\circ}C$	0.6	-	-	V
		$T_a = 25^{\circ}C$	-	1.2	-	V
		$T_a = 50^{\circ}C$	-	-	2.2	V
INPUT HIGH VOLTAGE	V_{IH}	$V_{CC1} = 5.5V$	2.0	-	-	V
INPUT LOW VOLTAGE	V_{IL}	$V_{CC1} = 4.5V$	-	-	0.8	V
POWER SUPPLY CURRENT	I_{CC}	$V_{DD} = 5.0V$	-	38	57	mA
CCFL START VOLTAGE.	V_{Fs}	-	-	-	600	V rms
CCFL VOLTAGE.	V_{FL}	$I_{FL} = 5mA_{rms}$	-	400	-	V rms
CCFL CURRENT	I_{FL}	-	3.0	5.0	7.0	mA _{rms}
CCFL FREQUENCY	F_{FL}	-	55	65	75	KHz
BRIGHTNESS	L	Dots all ON	-	187	-	cd/m ²
		Dots all OFF	-	2.4	-	
DRIVE METHOD	1/64 Duty					