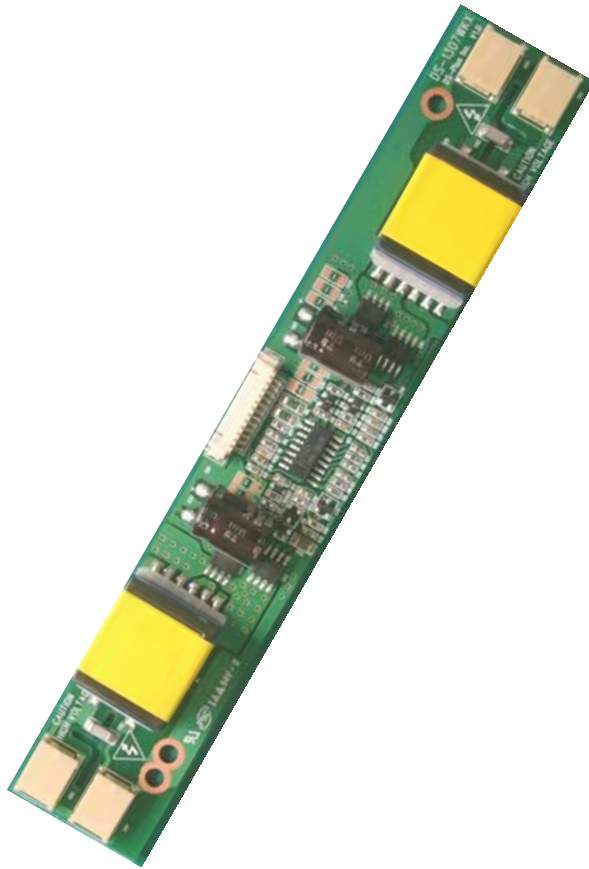


DS-1307WK xv2.0



Features

- Drive 4-lamps
- Nominal current 7.5 mArms for each lamp
- 10.8 to 13.2 V input voltage range
- Accurate and stable output current regulation
- Accommodation to various LCD-module
- Voltage dimming control
; no influence to power ripple
- Protection against lamp open or failure
- Long lamp life with soft start
- High efficiency
- Low EMI and spurious noise

Applications

- 15~22" Desktop LCD monitor
- Industrial LCD panel

Electrical characteristics

Parameter	Symbol	Conditions*	Specification*			Unit
			Min	Typ	Max	
Input supply voltage	V_{IN}		10.8	12.0	13.2	V
Input current	I_{IN}	$V_{IN}=12V, V_{BRT}=0V$	2.00	2.50	3.00	A
Full bright lamp current	$I_{O(MAX)}$	$V_{IN}=12V, V_{BRT}=0V$	7.0	7.5	8.0	mArms
Minimum lamp current	$I_{O(MIN)}$	$V_{IN}=12V, V_{BRT}=5.0V$	1.5	2.5	3.5	mArms
Operating frequency	F_O	$V_{IN}=12V, V_{BRT}=0V$	43	48	53	KHz
Open lamp output voltage	V_O	1 or more lamp open	-	-	0	Vrms
Dimming ratio(voltage)		$V_{IN}=12V, V_{BRT}=0$ to 5.0V		2 : 1		
Sleep current	I_{IN}	$V_{IN}=12V, V_{SLEEP}=0V$			10	mA
Efficiency		$V_{IN}=12V, V_{BRT}=0V$	82	88		%

* At the reference 22" Wide LCD-Module(LTM220M1-L01) of Samsung

DS-Plus Inc./ ()

Room 403, Ssangyong IT twin tower-1, 442-17 Sangdaewon-dong, Jungwon-gu, Seongnam-city 462-807, Korea
Tel : 82-31-608-7100~3, Fax : 82-31-608-7104

Absolute maximum ratings

Input supply voltage (V_{IN})	-----	-0.3V to 13.2V
Output voltage, no load	-----	Internally limited to zero volt
Output current (I_O)	-----	8.0mA rms
Output power (per lamp)	-----	6.0W
Sleep & Bright adjust signal voltage (V_{SLEEP} , V_{BRT})	----	-0.3V to V_{IN}
Ambient operating temperature	-----	0 °C to 50 °C
Storage temperature range	-----	-30 °C to 80 °C
Operating & storage humidity	-----	10 % to 85 %

Recommended operating conditions (R.C.)

Parameter	Symbol	Recommendation			Units
		Min	R.C.	Max	
Input supply voltage	V_{IN}	10.8	12.0	13.2	V
Full bright lamp current	$I_{O(MAX)}$	7.0	7.5	8.0	mA rms
Brightness control voltage range	V_{BRT}	0		5.0	V
Lamp on/off control voltage	V_{SLEEP}		5.0		V
Lamp operating voltage	V_O		750		V rms
Operating ambient temperature range	T_A	0		50	°C

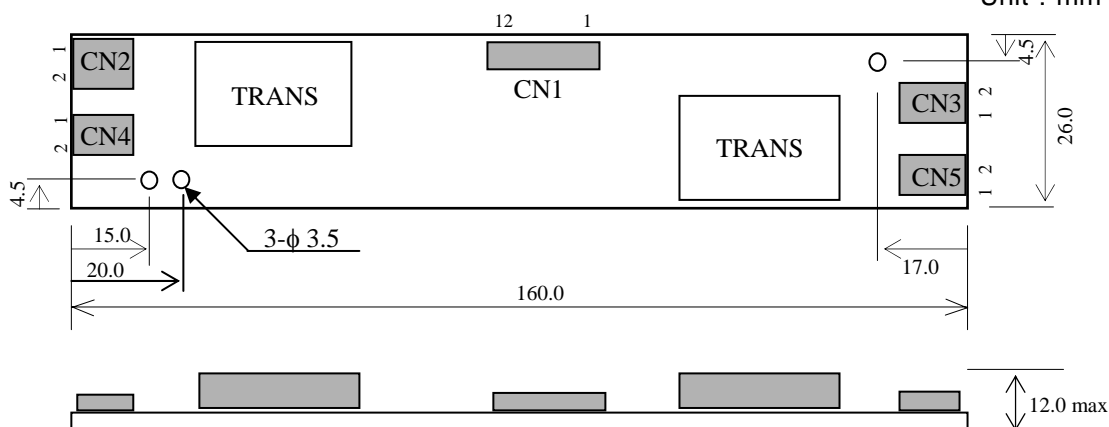
Connector and functional pin description

- CN1 Connector : 12505WR-12A00 (YEONHO or Equivalent)
 - CN1-1,2,3 V_{IN} (DC Input ; 12.0V)
 - CN1-4,5,7,8,10,12 G_{ND} (Power supply return)
 - CN1-9 V_{SLEEP} (Lamp On/Off control ; Off at Low, On at High)
 - CN1-11 V_{BRT} (Bright adjust ; 0 to 5.0V)
 - CN1-6 N.C

- CN2~5 Connector : 35001WR-02A00 (YEONHO or Equivalent)
 - CN2~5 -1 High voltage
 - CN2~5 -2 Lamp current return

Mechanical dimensions

Tolerance : ± 0.5
Unit : mm



Notice : The specification is subject to change without notice