

DS-1302WF



Features

- Drive 2-lamp
- Wide input voltage operation
- Accurate and stable output current regulation
- Long lamp life with soft start
- Low sleep current
- Voltage Dimming control
; no influence to power ripple
- Protection against lamp open or failure
- High efficiency
- Low EMI and spurious noise

Applications

- 3.8~15" 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}	$V_{IN}=12V, V_{BRT}=0V$	0.60	0.70	0.80	A
Full bright lamp current	$I_{O(MAX)}$	$V_{IN}=12V, V_{BRT}=0V$	5.0	6.0	7.0	mArms
Minimum lamp current	$I_{O(MIN)}$	$V_{IN}=12V, V_{BRT}=5.0V$	1.0	2.0	3.0	mArms
Operating frequency	F_O	$V_{IN}=12V, V_{BRT}=0V$	37	42	47	KHz
Dimming ratio		$V_{IN}=12V, V_{BRT}=0$ to 5.0V		2 : 1		
Sleep current	I_{SLEEP}	$V_{IN}=12V, V_{SLEEP}=0V$			10	mA
Efficiency		$V_{IN}=12V, V_{BRT}=0V$	80	88		%

* At the reference BOE-Hydis(HV104X01-100) LCD Module

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 14V
Output current (I_O)	-----	8.0mArms
Output power	-----	5.0W
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	$I_{O(MAX)}$	5.0	6.0	7.0	mArms
Brightness control voltage range	V_{BRT}	0		5.0	V
Lamp on/off control voltage	V_{SLEEP}	3.0	5.0	7.0	V
Lamp operating voltage	V_O		520		Vrms
Operating ambient temperature range	T_A	0		50	°C

Connector and functional pin description

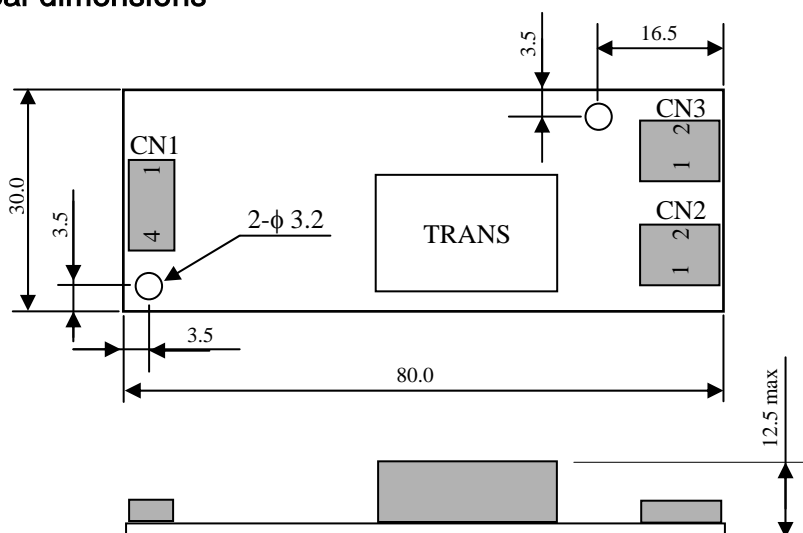
- CN1 Connector : 12505WR-04A00 (Yeonho or Equivalent)
- CN1 - 1 V_{IN} (DC input ; 12.0V)
 - CN1 - 2 G_{ND} (Power supply return)
 - CN1 - 3 V_{SLEEP} (Lamp On/Off control ; Off at Low, On at High)
 - CN1 - 4 V_{BRT} (Bright adjust ; 0 to 5.0V)

- CN2 Connector (Option) : 20015WR-05 (Yeonho or Equivalent)
or 35001WR-02A00 (Yeonho or Equivalent)

- CN2 - 1 High voltage
- CN2 - 2 Lamp current return

Mechanical dimensions

Tolerance : ± 0.2
Unit : mm



Notice : The specification is subject to change without notice