

DS-1302WH (12.0mA)



Features

- Drive 2-lamps
- Nominal current 12.0 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

- 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}	$V_{IN}=12V$, $V_{BRT}=0V$	0.5	0.75	1.0	A
Full bright lamp current	$I_{O(MAX)}$	$V_{IN}=12V$, $V_{BRT}=0V$	10.0	12.0	14.0	mArms
Minimum lamp current	$I_{O(MIN)}$	$V_{IN}=12V$, $V_{BRT}=5.0V$	2.0	4.0	6.0	mArms
Operating frequency	F_O	$V_{IN}=12V$, $V_{BRT}=0V$	37	42	47	KHz
Open lamp output voltage	V_O	Lamp open	-	-	0	Vrms
Dimming ratio(voltage cont)		$V_{IN}=12V$, $V_{BRT}=0$ to 5.0V	2 :1	3 :1		
Sleep current	I_{IN}	$V_{IN}=12V$, $V_{SLEEP}=0V$			10	mA
Efficiency		$V_{IN}=12V$, $V_{BRT}=0V$	80	88		%
Striking voltage	V_S	$V_{IN}=12V$, $V_{BRT}=0V$		1200		Vrms

* At the reference 15"LCD-Module of LG-Philips

DS-Plus Inc./ ()

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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)	-----	14.0mAmps
Output power (per lamp)	-----	7.0W
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.)

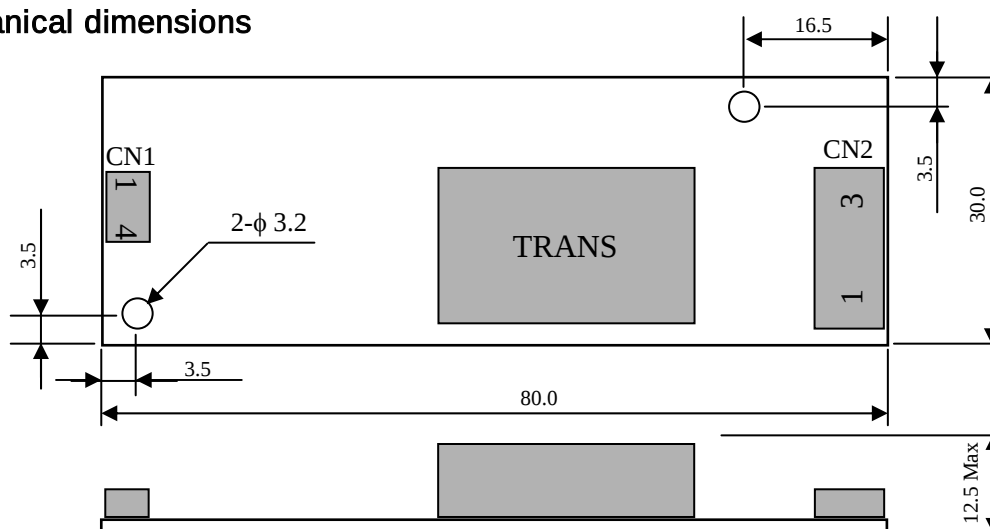
Parameter	Symbol	Recommendation			Units
		Min	R.C.	Max	
Input supply voltage	V_{IN}	10.8	12.0	13.2	V
Full bright lamp current	$I_{O(MAX)}$	10.0	12.0	14.0	mAmps
Brightness control voltage range	V_{BRT}	0		5.0	V
Lamp on/off control voltage	V_{SLEEP}	3.0	5.0	7.0	V
Lamp operating voltage	V_O		650		Vrms
Operating 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	: 20015WR-05A01 (YEONHO or Equivalent)
CN2 -1	Lamp current return
CN2 -2	High voltage
CN2 -3	High voltage

Tolerance : ± 0.5
Unit : mm

Mechanical dimensions

Notice : The specification is subject to change without notice