

INVC473 (Low cost version of INVC444)

This Inverter is designed and adjusted for cold fluorescent lamp used in the LMG7550RPFC and LMG7520RPFC STN liquid crystal display modules.

FEATURES

- ◆ Low cost
- ◆ 5V input voltage
- ◆ Very small, very thin and low power consumption design
- ◆ External On/Off switching of backlight
- ◆ Low noise

GENERAL DATA

Item	Value	Unit
Module Dimensions	90x22x14.1	mm
Weight	20 max	g
Output Power	1.8 nominal	W
Efficiency	85 min	%
Mean Time Between Failure (MTBF)	60.000 min	hrs

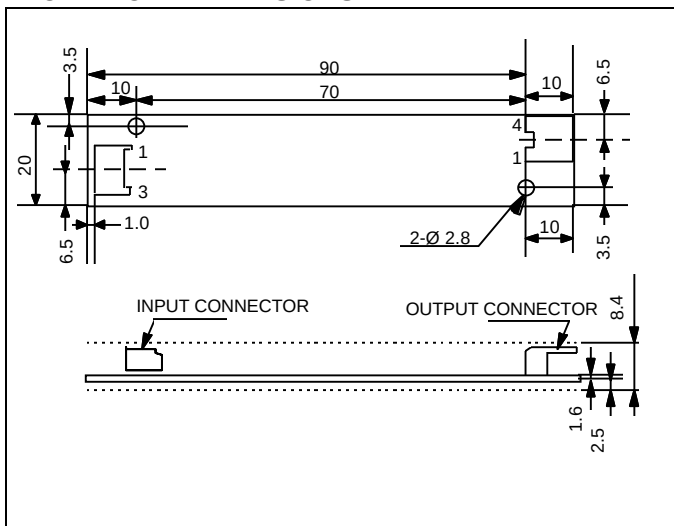
ABSOLUTE MAXIMUM RATINGS

Item	Symbol	Condition	Min	Max	Unit
Input Voltage	V_{MAX}	-	0.5	7.0	V
Operating Temperature	T_{OP}	-	0	50	°C
Storage Temperature	T_{ST}	-	-20	70	°C
Humidity	-	-	-	90	% RH

ELECTRICAL CHARACTERISTICS

Item	Symbol	Condition	Min	Typ	Max	Unit
Input Voltage	V_{IN}	-	4.5	5.0	5.5	V
Input Current	I_{IN}	5V, T=25°C	0.4	0.45	0.5	A
Rush Current	I_S	5V, T=25°C	-	-	3.0	A
Lamp Current	I_L	5V, T=25°C	4.0	4.5	5.0	mA
Lamp Power	P_L	5V, $I_L = 4.5mA$, T=25°C	-	1.8	-	W
Frequency	f_L	5V, T=25°C	50	60	70	kHz
Startup Characteristics	0°C +/- 1°C, DC 4.5.V					

MECHANICAL DIMENSIONS



INPUT AND OUTPUT CONNECTORS

Input Connector	Input Housing Connector
JST PHR-3	JST S3B-PH-K-S
Output Connector	Output Housing Connector
MITSUMI M60-30-134P	MITSUMI M60-04

INPUT CONNECTOR PIN ASSIGNMENT

Pin No	Symbol	Comment
1	CFL ON/OFF	On at low (0.8V min) , Off at open
2	GND	-
3	Vin	5.0 +/- 10%

OUTPUT CONNECTOR PIN ASSIGNMENT

Pin No	Symbol	Comment
1	CFL HV	Connect to lamp high voltage side
2	NC	-
3	NC	-
4	CFL GND	Connect to lamp low voltage side