

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

FEATURES

- ◆ Very small, very thin and low power consumption design
- ◆ Adaptable to a wide range of input voltages (7-19 V)
- ◆ External On/Off switching of backlight
- ◆ External adjustment of two maximum brightness levels
- ◆ Dimmable from 100 down to 60 percent with a variable resistor

GENERAL DATA

Item	Value	Unit
Module Dimensions	110x13x8	mm
Weight	10.0 max	g
Output Power	2.4 nominal	W
Efficiency	65 min	%
Mean Time Between Failure (MTBF)	60.000 min	hrs

ABSOLUTE MAXIMUM RATINGS

Item	Symbol	Condition	Min	Max	Unit
Input Voltage	V_{MAX}	-	6.0	21.0	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}	-	7.0	12.0	19.0	V
Input Current	I_{IN}	12V, T=25°C;	0.26	0.31	0.36	A
Rush Current	I_S	12V, T=25°C	-	-	2.0	A
Lamp Current	I_L	12V, T=25°C;	4.0	5.0	6.0	mA
Lamp Power	P_L	12V, T=25°C;	-	2.4	-	W
Frequency	f_L	12V, T=25°C	60	70	80	kHz
Dimming Range	-	12V, T=25°C	-	100-50	-	%
Startup Characteristics	0°C +/- 1°C, DC 7.0V					

INPUT AND OUTPUT CONNECTORS

Input Connector	Input Housing Connector
HIROSE DF13-6P-1.25H	DF13-6S-1.25C
Output Connector	Output Housing Connector
MITSUMI M60-04-30-134P	M60-04

INPUT CONNECTOR PIN ASSIGNMENT

Pin No	Symbol	Comment
1	VCC	7V-19V
2	GND	-
3	CFL ON/OFF	Open or High = OFF, Low (V<0.8V) = ON
4	BR1	Dimming through variable resistor 10kOhm
5	BR2	Brightness max at 0 Ohm, min at 10kOhm
6	H / L	Lamp Current 5mA at Open, 6mA at Low

OUTPUT CONNECTOR PIN ASSIGNMENT

Pin No	Symbol	Comment
1	CFL GND	Ground
2	NC	-
3	NC	-
4	CFL HV	High voltage output

MECHANICAL DIMENSIONS

