

# SHENZHEN JIADIANBAO ELECTRICAL PRODUCTS CO., LTD.

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GUANGDONG PROVINCE, CHINA.

深圳家電寶電器有限公司 廣東省深圳市新安鎮 26 號前進一路

## Description of circuitry used for G9502 with ET-100

This ceiling fixture G9502 was equipped with an electronic transformer ET-100 for light up two 12V/50W halogen bulbs.

120V, 60Hz power supply firstly enter an over-load protection circuitry composed by a fuse (5A/125V) and a varistor (131). Then, the electricity passing the noise filter circuitry composed by two capacitors (one 334/275V AC and another 1.0 uF/400V), five chokes (76mH x 2, 72mh x 2 and 0.85mH), and one resistor (1M/4W) for prevent any noise caused by this electronic transformer to feed back into the supply net. Then it enters the bridge rectifier composed by four diodes (IN4007) for full wave rectification. Now, the AC supply has been converted into 120V DC.

Then the 120V DC supply enter a multiharmonic oscillator composed mainly by two transistors (SEC13009) for converting DC to AC with a frequency of 20KHz. Then the high frequency AC supply distributed to a circular high frequency transformer (T1) and the output of said transformer (T1) used to light up two 12V/50W halogen bulbs in parallel.

NO. A3288 ISO 9002



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