

Features:

- 10 Mhz bandwidth typical
- 30kVdc isolation test voltage
- TTL compatible input and output
- High common mode rejection
- Rugged ceramic package

Applications:

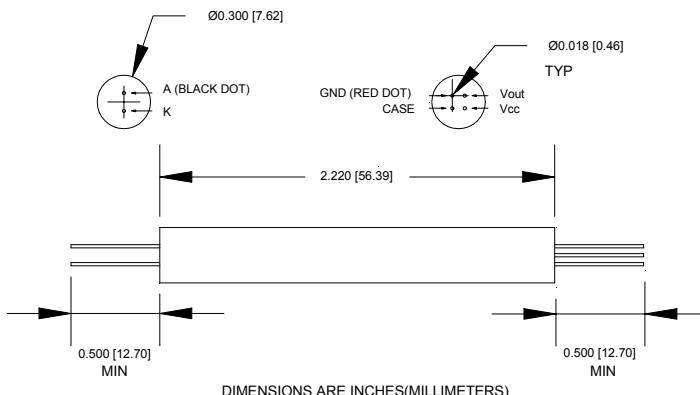
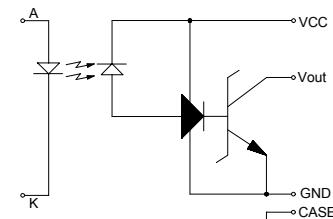
- Military and Space
- Voltage Level Shifting
- Grid Current Modulator
- Switching between power supplies
- Medical systems

DESCRIPTION

The **66181** high voltage isolator consisting of a LED optically coupled to a high speed, high gain inverting detector gate. Output is TTL capable with switching propagation delays of 55ns typical, hermetically sealed in TO-46 packages and mounted in a highly reliability, hermetically sealed ceramic package. Available in commercial (0° to +70°C), extended temperature range (-40° to +85°) and full Military temperature range (-55° to +125°C). **Contact the factory for special custom or multi-channel requirements!**

ABSOLUTE MAXIMUM RATINGS

Storage Temperature.....	-65°C to +150°C
Operating Free-Air Temperature Range	-55°C to +125°C
Lead Solder Temperature.....	260°C for 10s (1.6mm below seating plane)
Peak Forward Input Current	40mA (1ms duration)
Average Forward Input Current	20mA
Input Power Dissipation	35mW
Reverse Input Voltage	5V
Supply voltage - V _{CC}	7V(1 minute maximum)
Output Current - I _O	25mA
Output Power Dissipation	40mW
Output Voltage - V _O	7V
Total Power Dissipation	350mW

Package Dimensions**Schematic Diagram**

NOTE:
A.01 TO 0.1 μ F BYPASS
CAPACITOR MUST BE
CONNECTED BETWEEN
V_{CC} AND GROUND.

ENCAPSULATION IN A
SUITABLE EPOXY IS
REQUIRED TO MEET 30KV
ISOLATION VOLTAGE

