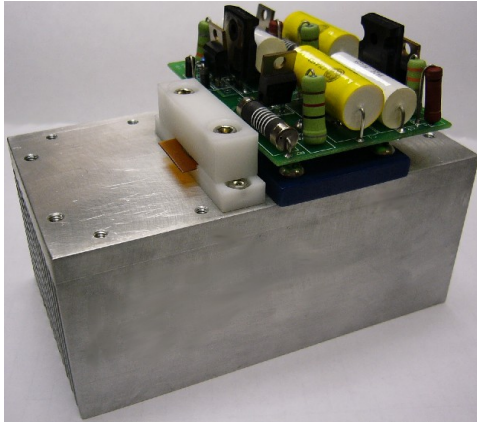


Applied Pulsed Power™

A Division of Silicon Power Corporation

280 Great Valley Parkway
Malvern, PA 19355-1308

Phone: 610-407-4700
www.appliedpulsedpower.com



Model EA0013 Gate Trigger and Snubber Circuit for Model S25 Dual Thyristor Modules

The Model EA0013 is designed to attach to the Model S25 Dual Thyristor Module to provide snubber and gate trigger in a low inductance connection. The electrically triggered version requires only a 1A 15V trigger signal.

The Model EA0013 Gate and Snubber Circuit for Model S25 Dual Thyristor Modules is a self powered trigger circuit and resistive and capacitive snubber circuit. The snubber resistance assures DC voltage balance between the two series connected thyristors in the Dual Thyristor Module package. The snubber capacitance assures AC voltage balance between the thyristors as well as provides the trigger energy for fast turn-on. The electrically triggered version can be triggered by the Model EA0038 Trigger Circuit. The EA0013 is designed for either an air or oil environment.

Operational Specifications

| Quantity | Value | Units |
|---------------|-------|-------|
| Capacitance | 7.5 | nF |
| Resistance | 20 | MΩ |
| Turn-on delay | 60 | ns |
| Temperature | 0-80 | °C |

Figure 1 shows the electrical trigger input. It is a Molex connector, part number 03-06-1022. Make sure to correctly match the polarity of the trigger signal.

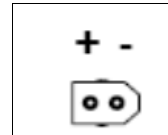


Figure 1: Trigger Input

APP also provides a variety of solid state switch products and complete pulsed power systems. Contact sales@appliedpulsedpower.com for information.