

Triggered Mini-Gap Set 105230



Mini-Trigger Transformer



Mini-Triggered Spark gap

This proven matched set contains a hermetically sealed, gas filled, miniature triggered spark gap, enclosed in a T05 type transistor package along with a durable and reliable trigger transformer that is matched to the triggered gaps.

The transformer is designed to provide a HV pulse with a fast rise time and low current.

This set is ideally suited for high-reliability applications where size, switch speed, and the ability to withstand rugged missile environment conditions of extreme shock, temperature, and vibration are required.

The set is a lower cost alternative to traditional ceramic-metal type sparks gaps.

Gaps and transformers in this set may be solder mounted to printed circuit boards.

Applications for this set would include precision timing for in-flight functions such as rocket motor ignition, warhead detonation and missile stage separation.

Features

- Demonstrated ability to initiate various booster and main charges
- High reliability
- Small size
- Environmentally durable
- Low cost

Applications

- Exploding bridge wire (EBW)
- Exploding foil initiator (EFI)
- Electronic safe and arm and fire (ESAF)
- Slapper/ detonator
- Ignition Safety Device

Triggered Mini-Gap Set

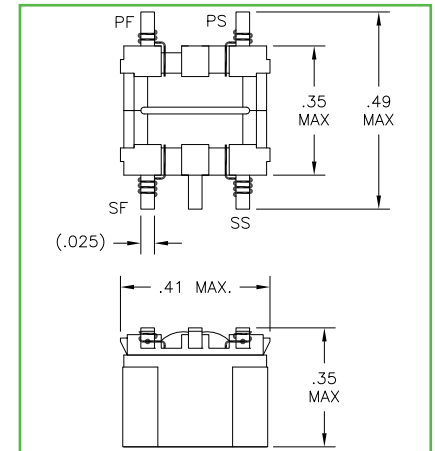
105230

TR-2279 Trigger transformer specs.	Minimal	Typical	Maximal
DC input			200VDC
Primary Peak Current		80 Ampvs @ 200	
Hold Off Voltage (Sec. to Pri.)			4KVDC
Primary Inductance		40uH	
Output Voltage		7KV	
Rise Time		0.15usec.	
Pulse Width		0.35usec	
Secondary Inductance		22mH	

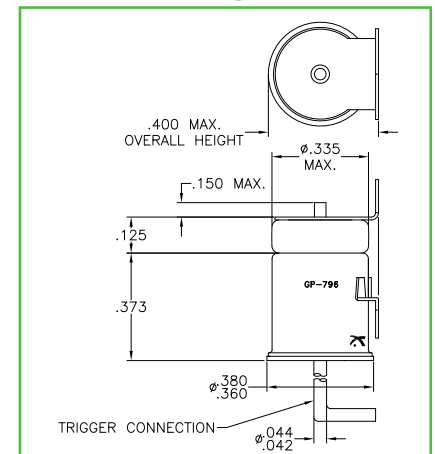
GP-796 Triggered spark gap specs.	Minimal	Typical	Maximal
Peak Current		10kAmps	
SBV		4.5-5.0kV	
Operating Voltage range		2.0-3.5kV	
Delay time range		150-400nsec.	
Jitter		50 nsec. RMS	
Trigger break Down range		0.7-2.5kV	

Environmental ratings	Minimal	Typical	Maximal
Operating ranges		-55°C -+125°C	
Mechanical shock- MIL STD 202 Method 213		SRS of 45kg in the firing module longitudinal axis. ²	
High Frequency Vibration - MIL STD 202 Method 204		10-2000HZ,80G	
Thermal Shock MIL STD 202 Method 207		-65°-+125°C	

Outline Drawing



Outline Drawing



Notes:

- (1) This data sheet may be revised, without notice, at any time.
- (2) Test results will vary dependant on the design of the end use assembly.

About Excelitas Technologies

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