

Pretensioner Gas Generator (PGG)

Product Description:

The ignition charge (ZPP) and propellant inside the PGG are ignited by an electric signal, and instantly generate high-pressure combustion gas.

Combustion gas is utilized as the operating source of the seat belt pretensioner.

Specifications

Output Load: Max. 2000 mg (ZPP + NC)

Output Type: ZPP, NC

Qualified to: USCAR, AK-LV16

Connector Standard: AK1, AK2, AK2+, ABX3, ABX5

Holder Standard: VDA-L, ISO-K

Weight: About 9.0gr.

Temperature Range: -40 °C/ +85 °C

Initiator Data

Qualified to AK-LV16 & USCAR

Initiator resistance $\geq 1.7 \Omega$ and $\leq 2.5 \Omega$

All-fire current $\geq 1.75 \text{ A} / 0.5 \text{ msec}$
or $\geq 1.20 \text{ A} / 2.0 \text{ msec}$

No-fire current $\leq 0.4 \text{ A} / 10 \text{ sec}$

or $\leq 5.0 \text{ A} / 4 \mu \text{sec}$

Monitor current: $\leq 160 \text{ mA}$

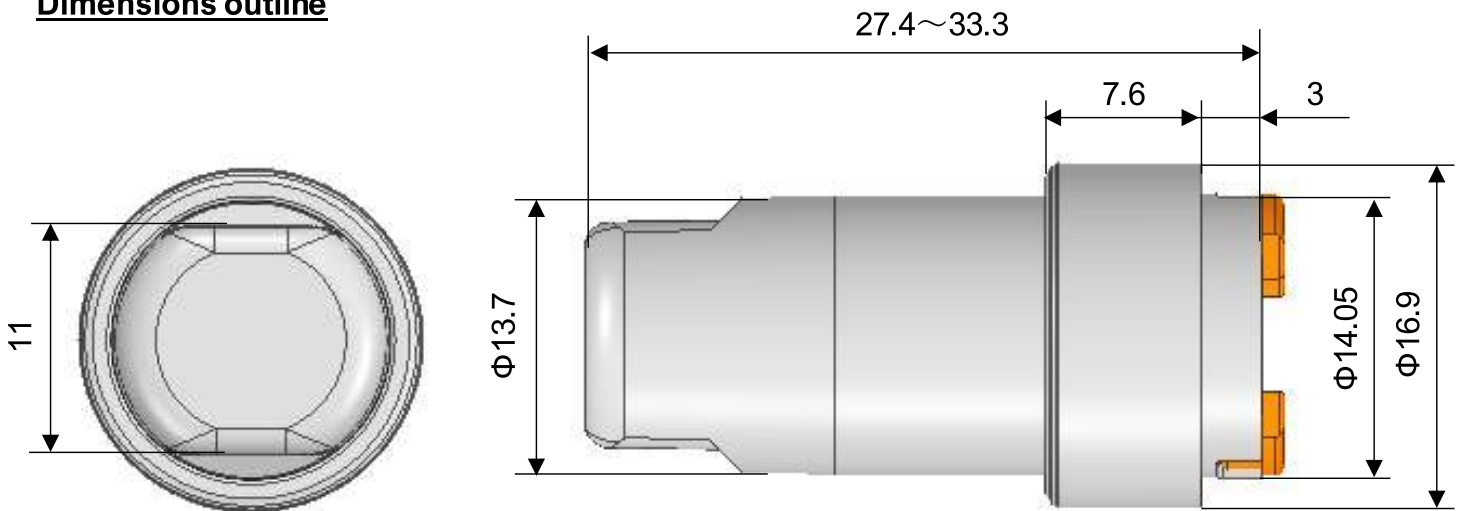
Ballistic Performance

Time to First Pressure: $< 2 \text{ msec}$

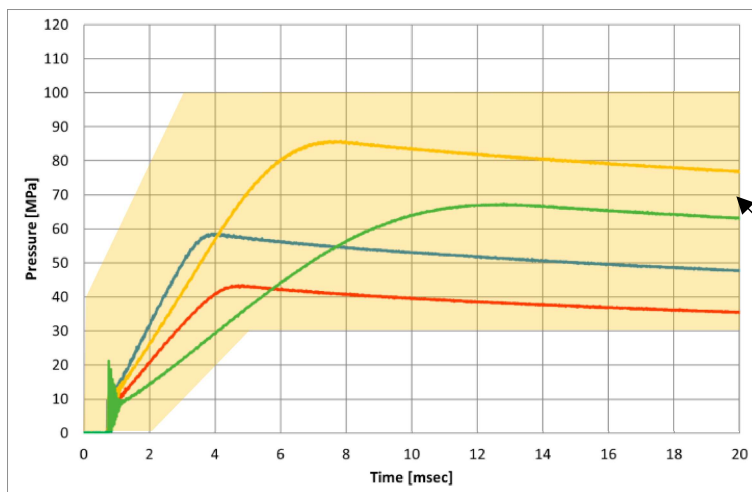
Time to Peak Pressure: $> 3 \text{ msec}$

Peak pressure in 10cc: to 100 MPa

Dimensions outline



Ballistic Performance Curve (10cc tank bomb)



- Propellant A
- Propellant B
- Propellant C
- Propellant D

Ballistic performance can be adjusted by changing the type and amount of propellant

