

**PRODUCT FAMILY**

**NASA STANDARD INITIATOR**

The NASA standard initiator (NSI) is a two-pin electrically activated, hot wire+ electro-explosive designed to meet the requirements all space missions, from lunar to Mars and beyond. Our NASA Standard Initiator has been designed to meet or exceed the performance requirements of the original NASA Standard Initiator specification drawing SEB 26100001. In mission-critical space and defense applications, a Space Electric Initiator provides a fast-acting, small-package energy source for converting electrical signals to a gas pressure output or high temperature flame and hot particles. We have engineered hundreds of variations of our high-quality, highly reliable initiators in the 103377 family. In particular, our 103377-500 meets stringent test and flight requirements while maintaining low cost and ease of availability.



**APPLICABLE SPECIFICATIONS**

All-Fire:	3.5 amps
No-Fire:	> 5 Minutes @ 1 amp/1 watt
Bridgewire Resistance:	1.05 ± 0.10 ohms
Insulation Resistance:	50 Megaohms min. @500VDC
Electrostatic Discharge:	25 KV / 500pF / 5000 ohm
Operating Temperature:	-260 °F to + 300 °F
Hermetic Sealing:	1 x 10 <sup>-6</sup> cc/sec HE at 1 atm differential
Thermal Cycling:	-260 °F to +300 °F
Shock:	2600 G's
Vibration (random):	-50.0 g RMS, 3 minutes/axis
Thermal Vacuum:	At 10 <sup>-6</sup> Torr from +300 °F for 2 hours
Electrical Connection:	MS3116P8-25
Output Thread:	-3/8-24UNJF-3A
Torque:	150 inch pounds

ENVELOPE & DIMENSIONS

