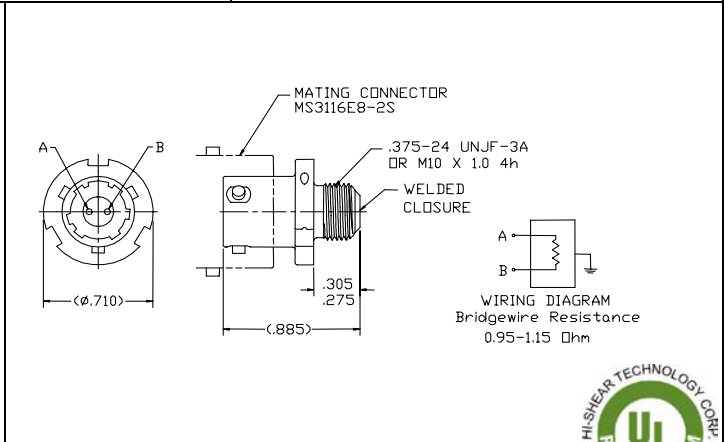




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**\*AVAILABLE ONLY THROUGH NASA JSC\***

NASA Standard Initiator (NSI)	Datasheet Page 1 of 2	Orig. issue: 12DEC00 –Rev. D: 20JUL06
DEVICE	1A/1W INITIATOR	DISPOSITIF
TYPE	PN SEB 26100001	REFERENCE
<b>1. PERFORMANCES</b> <ul style="list-style-type: none"> <li>All-Fire current (Bruceton Method)</li> <li>No-fire current</li> <li>Functioning time</li> <li>Hermeticity</li> <li>Redundancy</li> <li>Nominal peak pressure, 10 cc</li> </ul>	3.5 A(R< 0,999 95%) +77°F  1A/1W – 5 min (-165°F +165°F) < 2ms (I= 5A) < 10 <sup>-6</sup> atm. Cm <sup>3</sup> / s (He) b.a.f  650 ± 125 psi	<b>1. PERFORMANCES</b> <ul style="list-style-type: none"> <li>Courant de feu 100% (Method de Bruceton)</li> <li>Courant de non-feu</li> <li>Temps de fonctionnement</li> <li>Herméticité</li> <li>Redondance</li> <li>Pression nominal</li> </ul>
<b>2. MECHANICAL CHARACTERISTICS</b> <ul style="list-style-type: none"> <li>Weight</li> <li>Electric connection</li> </ul> <p style="text-align: center;"><b>MATERIALS</b></p> <ul style="list-style-type: none"> <li>Body</li> <li>Leads or connector</li> <li>Hermetic seal               <ul style="list-style-type: none"> <li>Feed through</li> <li>Front</li> </ul> </li> </ul>	11 g MS3116E8-2S/ NBS9GE8-2SE  Stainless steel Inconel 718 Kovar pins  Glass to metal seal	<b>2. CARACTERISTIQUES MECANIKUES</b> <ul style="list-style-type: none"> <li>Masse</li> <li>Connexion électrique</li> </ul> <p style="text-align: center;"><b>MATERIAUX</b></p> <ul style="list-style-type: none"> <li>Corps</li> <li>Câblage ou connecteur</li> <li>Herméticité               <ul style="list-style-type: none"> <li>Passage électrique</li> <li>Avant</li> </ul> </li> </ul>
FIXING MODE	Thread 3/8-24 UNJF/M10 x 1.0 4h	MODE DE FIXATION
INSTALLATION TORQUE	125 ± 10 inch pounds	TORSION D' INSTALATION
<b>3. ELECTRICAL CHARACTERISTICS</b> <ul style="list-style-type: none"> <li>Bridgewire number</li> <li>Bridgewire resistance</li> <li>Insulation resistance</li> <li>Leads resistivity</li> <li>Dielectric strength</li> <li>Static sensitivity               <ul style="list-style-type: none"> <li>All leads shorted to case</li> <li>Between leads</li> </ul> </li> </ul>	1 1.05 ± 0.1 Ω > 1000 M Ω / 250 VDC  > 100 μ A / 200 VAC  25 Kv / 500 pF / 5000 Ω	<b>3. CARACTERISTIQUES ELECTRIQUES</b> <ul style="list-style-type: none"> <li>Nombre de ponts-fusibles</li> <li>Résistance du filament</li> <li>Résistance d'isolement</li> <li>Résistance des conducteurs</li> <li>Rigidité diélectrique</li> <li>Décharges électrostatiques               <ul style="list-style-type: none"> <li>Entre circuit et masse</li> <li>Entre fils</li> </ul> </li> </ul>
<p style="text-align: center;"><b>CURRENT RATINGS</b></p> <ul style="list-style-type: none"> <li>Nominal firing current</li> <li>All-fire current</li> <li>No-Fire current</li> <li>Safe no-fire current for testing</li> </ul>	> 5 A / 4 ms 3.5 A (R<0,999 95%) +77°F 1A/1W 5min (-165°F +165°F) < 10mA	<p style="text-align: center;"><b>COURANTS LIMITES</b></p> <ul style="list-style-type: none"> <li>Courant de mise à feu nominal</li> <li>Courant de feu 100%</li> <li>Courant maxi de non feu</li> <li>Courant maxi de contrôle</li> </ul>





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<b>4. PYROTECHNIC CHARACTERISTICS</b> <ul style="list-style-type: none"> <li>Initiator type</li> <li>Principal pyrotechnic load</li> </ul>	114 mg ZPP powder	<b>4. CARACTERISTIQUES PYROTECHNIQUES</b> <ul style="list-style-type: none"> <li>Type d'initiateur</li> <li>Charge pyrotechniques principale</li> </ul>
<b>5. ENVIRONMENTAL TEST SPECIFICATIONS</b> <ul style="list-style-type: none"> <li>Mechanical shock</li> <li>Acceleration</li> <li>Sinusoidal vibration</li> <li>Random vibration @ -260°F</li> <li>Humidity</li> <li>Thermal shock</li> <li>Thermal vacuum</li> <li>Operating temperature</li> <li>Storage life</li> </ul>	100 g 6 shock impacts/11ms 3axes 100g / 11ms 3axis 25 Hz 2g 10 – 100 .01 - .08 6db/oct 100 – 400 0.8 constant 400 – 2 KC 0.6 – 0.16 3db/oct MIL-E-5277C Proc. 1 -260°F +300°F 20 cycles 1hr +300°F 1x10 <sup>-6</sup> Torr (650K alt) -260°F 1x10 <sup>-6</sup> Torr (96 hr) -420°F +300°F 10 years	<b>5. RESISTANCE AUX CONDITIONS D'ENVIRONNEMENT</b> <ul style="list-style-type: none"> <li>Shocs mécaniques</li> <li>Accélération</li> <li>Vibrations sinusoïdales</li> <li>Vibrations aléatoires</li> <li>Humidité</li> <li>Chocs thermiques</li> <li>Vide thermique</li> <li>Températures de fontionnement</li> <li>Durée de stockage</li> </ul>
<b>6. DEVELOPMENT STATUS</b> <ul style="list-style-type: none"> <li>References:               <ul style="list-style-type: none"> <li>Development date</li> <li>Qualification test report</li> <li>Last verification of qualification date</li> </ul> </li> <li>Flight applications:               <ul style="list-style-type: none"> <li>Projects</li> <li>Dates</li> <li>Users</li> </ul> </li> </ul>	1980 NASA SEB 26100001-2877 1991  Space Shuttle, US satellites 1980 – present NASA, ESA, BAC, MATRA, BOEING, HUGHES, LOCKHEED	<b>6. CONDITIONS DE DEVELOPPEMENT</b> <ul style="list-style-type: none"> <li>Références:               <ul style="list-style-type: none"> <li>Date du développement</li> <li>Rapport de qualification</li> <li>Contrôls de qualification ultérieurs</li> </ul> </li> <li>Applications spatiales:               <ul style="list-style-type: none"> <li>Projets</li> <li>Dates</li> <li>Utilisateurs</li> </ul> </li> </ul>

