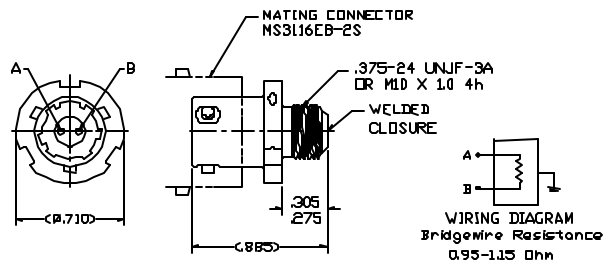




24225 GARNIER STREET · TORRANCE · CALIFORNIA 90505-5355 · U.S.A.  
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'Equivalent' NASA Standard Initiator (NSI)	Revision: B Page 1 of 2	Date: 12DEC00
DEVICE	1A/1W INITIATOR	DISPOSITIF
TYPE	Model PC-23 - PN 9391575	REFERENCE
1. PERFORMANCES <ul style="list-style-type: 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	1. PERFORMANCES <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>h�rm�ticit�</li> <li>Redondance</li> <li>Pression nominal</li> </ul>
2. MECHANICAL CHARACTERISTICS <ul style="list-style-type: none"> <li>Weight</li> <li>Electric connection</li> </ul> <p style="text-align: center;">MATERIALS</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 MS53116ES-2S  Stainless steel Inconel 718 Kovar pins  Glass to metal seal	2. CARACTERISTIQUEQUES MECANIQUES <ul style="list-style-type: none"> <li>Masse</li> <li>Connexion �lectrique</li> </ul> <p style="text-align: center;">MATERIAUX</p> <ul style="list-style-type: none"> <li>Corps</li> <li>C�blage ou connecteur</li> <li>Herm�ticit�           <ul style="list-style-type: none"> <li>Passage �lectrique</li> <li>Avant</li> </ul> </li> </ul>
FIXING MODE	Thread 3/8-24 UNJF/M10 x 1.0 4h	MODE DE FIXATION
INSTALLATION TORQUE	95 – 105 inch pounds	TORSION D' INSTALATION
3. ELECTRICAL CHARACTERISTICS <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 / 500 VDC  > 100 μ A / 200 VAC  25 Kv / 500 pF	3. CARACTERISTIQUES ELECTRIQUES <ul style="list-style-type: none"> <li>Nombre de ponts-fusibles</li> <li>R�sistance du filament</li> <li>R�sistance d'isolement</li> <li>R�sistance des conducteurs</li> <li>Rigidit� di�lectrique</li> <li>D�charges �lectrostatiques           <ul style="list-style-type: none"> <li>Entre circuit et masse</li> <li>Entre fils</li> </ul> </li> </ul>
CURRENT RATINGS <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	COURANTS LIMITES <ul style="list-style-type: none"> <li>Courant de mise � feu nominal</li> <li>Courant de feu 100%</li> <li>Courant maxi de non feu</li> <li>Courant maxi de contr�le</li> </ul>





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'Equivalent' NASA Standard Initiator (NSI)	Revision:B Page 2 of 2	Date: 12DEC00
4. PYROTECHNIC CHARACTERISTICS <ul style="list-style-type: none"> <li>• Initiator type</li> <li>• Principal pyrotechnic load</li> </ul>	114 mg ZPP powder	4. CARACTERISTIQUES PYROTECHNIQUES <ul style="list-style-type: none"> <li>• Type d'initiateur</li> <li>• Charge pyrotechniques principale</li> </ul>
5. ENVIRONMENTAL TEST SPECIFICATIONS <ul style="list-style-type: none"> <li>• Mechanical shock</li> <li>• Acceleration</li> <li>• Sinusoidal vibration</li> <li>• Random vibration</li> <li>• Humidity</li> <li>• Thermal shock</li> <li>• Thermal vacuum</li> <li>• Operating temperature</li> <li>• Storage life</li> </ul>	100g 6 shock impacts /11ms 3axis 20 g / 120 sec 25 Hz 2g 10 – 100 .01 - .08 db/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) -260°F +300°F 15 years	5. RESISTANCE AUX CONDITIONS D'ENVIRONNEMENT <ul style="list-style-type: none"> <li>• Chocs mécaniques</li> <li>• Accélération</li> <li>• Vibrations sinusoidales</li> <li>• Vibrations aléatoires</li> <li>• Humidité</li> <li>• Chocs thermiques</li> <li>• Vide thermique</li> <li>• Températures de fonctionnement</li> <li>• Durée de stockage</li> </ul>
6. DEVELOPMENT STATUS <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>	1982 US Satellites SEB 26100001-2877 1991 (NSI PN SEB26100001)  US satellites & Launch vehicles 1982 – present ESA, BAC, MATRA, ASTRION, BOEING, HUGHES, LOCKHEED	6. CONDITIONS DE DEVELOPPEMENT <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>

