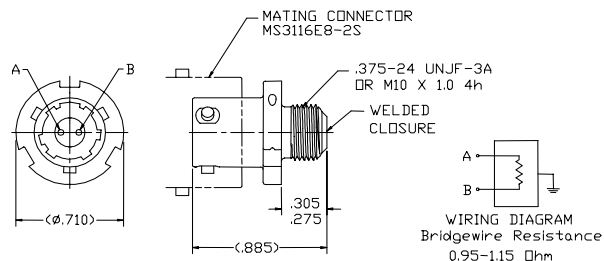




24225 GARNIER STREET • TORRANCE • CALIFORNIA 90505-5355 • U.S.A.  
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 E-mail: marketing@hstc.com

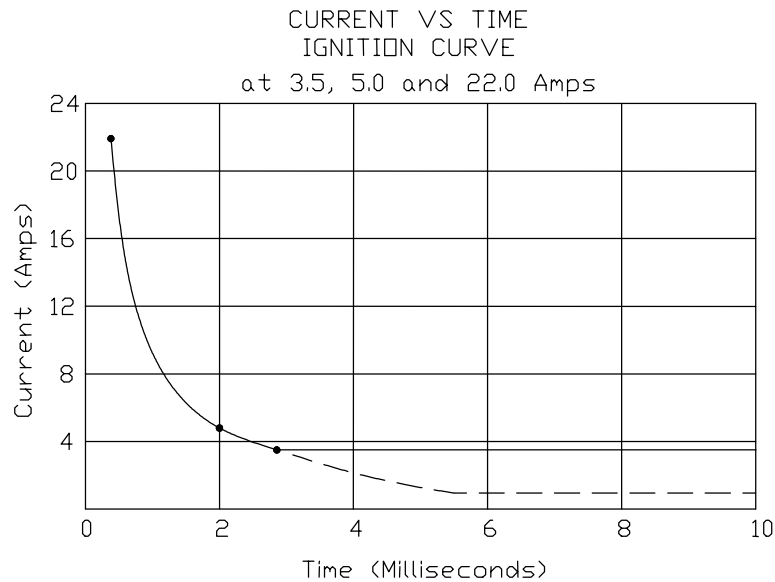
<b>PC23 Initiator, 'Equivalent' NASA Standard Initiator (NSI)</b>	<b>Datasheet</b>	<b>Page 1 of 2</b>	<b>Orig. issue: 12DEC00 – Rev. E: 20JUL06</b>
DEVICE	1A/1W INITIATOR		DISPOSITIF
TYPE	Model PC-23 - PN 92620-1		REFERENCE
<b>1. PERFORMANCES</b> <ul style="list-style-type: none"> <li>All-Fire current (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>hérméticité</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;">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 MS3116E8-2S  Stainless steel Inconel 718 Kovar pins  Glass to metal seal		<b>2. CARACTERISTIQUEQUES MECANIQUES</b> <ul style="list-style-type: none"> <li>Masse</li> <li>Connexion électrique</li> </ul> <p style="text-align: center;">MATERIAUX</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 / 500 VDC  > 100 μ A / 200 VAC  25 Kv / 500 pF / 5000 Ω		<b>3. CARACTERISTIQUEQUES 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;">CURRENT RATINGS</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;">COURANTS LIMITES</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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PC23 Initiator, 'Equivalent' NASA Standard Initiator (NSI)	Datasheet	Page 2 of 2	Orig. issue: 12DEC00 – Rev. E: 20JUL06
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 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) -260°F +300°F 10 years		5. RESISTANCE AUX CONDITIONS D'ENVIRONNEMENT <ul style="list-style-type: none"> <li>• Chocs 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 fonctionnement</li> <li>• Durée de stockage</li> </ul>
6. DEVELOPMENT STATUS - References: <ul style="list-style-type: none"> <li>• Development date</li> <li>• Qualification test report</li> <li>• Last verification of qualification date</li> </ul> - Flight applications: <ul style="list-style-type: none"> <li>• Projects</li> <li>• Dates</li> <li>• Users</li> </ul>	1982 US Satellites SEB 26100001-2877 1991 (NSI PN SEB26100001)  US satellites & Launch vehicles 1982 – present ESA, BAC, MATRA, ASTRUM, BOEING, HUGHES, LOCKHEED		6. CONDITIONS DE DEVELOPPEMENT - Références: <ul style="list-style-type: none"> <li>• Date du développement</li> <li>• Rapport de qualification</li> <li>• Contrôls de qualification ultérieurs</li> </ul> - Applications spatiales: <ul style="list-style-type: none"> <li>• Projets</li> <li>• Dates</li> <li>• Utilisateurs</li> </ul>



ISO 9001 A9813