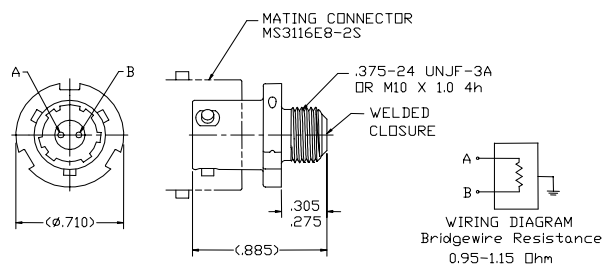




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PC23 Initiator 'Equivalent' NASA Standard Initiator (NSI)	Data Sheet Page 1 of 2	Orig. issue: 12DEC00 – Rev. G: 20JUL06
DEVICE	1A/1W INITIATOR	DISPOSITIF
TYPE	Model PC23	REFERENCE
1. PERFORMANCES <ul style="list-style-type: none"> All-Fire current (Bruceton Method) No-fire current Functioning time Hermeticity Redundancy Nominal peak pressure, 10 cc 	3.5 A (R< 0,999 95%) +77°F 1A/1W – 5 min (-165°F +165°F) < 2ms (I= 5A) < 10 ⁻⁶ atm. Cm ³ / s (He) b.a.f 650 ± 125 psi	1. PERFORMANCES <ul style="list-style-type: none"> Courant de feu 100% (Method de Bruceton) Courant de non-feu Temps de fonctionnement h�m�ticit� Redondance Pression nominal
2. MECHANICAL CHARACTERISTICS <ul style="list-style-type: none"> Weight Electric connection <p style="text-align: center;">MATERIALS</p> <ul style="list-style-type: none"> Body Leads or connector Hermetic seal <ul style="list-style-type: none"> Feed through Front 	11 g MS3116E8-2S Stainless steel Inconel 718 Kovar pins Glass to metal seal	2. CARACTERISTIQUE MECANIQUE <ul style="list-style-type: none"> Masse Connexion �lectrique <p style="text-align: center;">MATERIAUX</p> <ul style="list-style-type: none"> Corps Cablage ou connecteur H�m�ticit� <ul style="list-style-type: none"> Passage �lectrique Avant
FIXING MODE	Thread 3/8-24 UNJF/M10 x 1.0 4h	MODE DE FIXATION
INSTALLATION TORQUE	125 ± 10 inch pounds	TORSION D' INSTALATION
3. ELECTRICAL CHARACTERISTICS <ul style="list-style-type: none"> Bridgewire number Bridgewire resistance Insulation resistance Leads resistivity Dielectric strength Static sensitivity <ul style="list-style-type: none"> All leads shorted to case Between leads 	1 1.05 ± 0.1 Ω > 1000 M Ω / 250 VDC > 100 μ A / 200 VAC 25 Kv / 500 pF / 5000 Ω	3. CARACTERISTIQUE ELECTRIQUE <ul style="list-style-type: none"> Nombre de ponts-fusibles R�sistance du filament R�sistance d'isolement R�sistance des conducteurs Rigidit� di�lectrique D�charges �lectrostatiques <ul style="list-style-type: none"> Entre circuit et masse Entre fils
CURRENT RATINGS <ul style="list-style-type: none"> Nominal firing current All-fire current No-Fire current Safe no-fire current for testing 	> 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"> Courant de mise � feu nominal Courant de feu 100% Courant maxi de non feu Courant maxi de contr�le





PC23 Initiator 'Equivalent' NASA Standard Initiator (NSI)	Data Sheet Page 2 of 2	Orig. issue: 12DEC00 – Rev. G: 20JUL06
4. PYROTECHNIC CHARACTERISTICS <ul style="list-style-type: none"> Initiator type Principal pyrotechnic load 	114 mg ZPP powder	4. CARACTERISTIQUES PYROTECHNIQUES <ul style="list-style-type: none"> Type d'initiateur Charge pyrotechniques principale
5. ENVIRONMENTAL TEST SPECIFICATIONS <ul style="list-style-type: none"> Mechanical shock Acceleration Sinusoidal vibration Random vibration Humidity Thermal shock Thermal vacuum Operating temperature Storage life 	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 ⁻⁶ Torr (650K alt) -260°F 1x10 ⁻⁶ Torr (96 hr) -260°F +300°F 10 years	5. RESISTANCE AUX CONDITIONS D'ENVIRONNEMENT <ul style="list-style-type: none"> Chocs mécaniques Accélération Vibrations sinusoïdales Vibrations aléatoires Humidité Chocs thermiques Vide thermique Températures de fonctionnement Durée de stockage
6. DEVELOPMENT STATUS - References: <ul style="list-style-type: none"> Development date Qualification test report Last verification of qualification date - Flight applications: <ul style="list-style-type: none"> Projects Dates Users 	1982 US Satellites SEB 26100001-2877 1991 (NSI PN SEB26100001) US satellites & Launch vehicles 1982 – present ESA, BAC, MATRA, ASTRIUM, BOEING, HUGHES, LOCKHEED	6. CONDITIONS DE DEVELOPPEMENT - Références: <ul style="list-style-type: none"> Date du développement Rapport de qualification Contrôls de qualification ultérieurs - Applications spatiales: <ul style="list-style-type: none"> Projets Dates Utilisateurs

