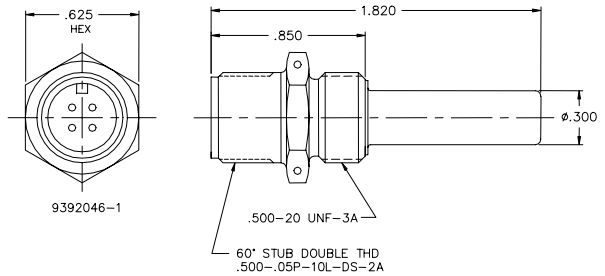




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<b>Droque Gun Cartridge used on US Air Force Advanced Concept Ejection Seat (ACES II)</b>	<b>Datasheet</b>	<b>Page 1 of 2</b>	<b>Orig. date: 11AUG03 Rev. A: 20JUL06</b>
DEVICE	INITIATOR, Dual Bridge		DISPOSITIF
TYPE	Model PC-163-1- PN 9392046-1		REFERENCE
NSN	1377-01322-0071ES		Stock Nombre Nationale
1. PERFORMANCES <ul style="list-style-type: none"> <li>All-Fire current (Bruceton Method)</li> <li>No-fire current</li> <li>Ignition time</li> <li>Hermeticity</li> <li>Redundancy</li> <li>Action Time</li> <li>Slug Velocity</li> </ul>	3.5 A(R< 0,999 95%) +77°F 1A/1W – 5 min (-65°F +200°F) Max. 7ms (I= 3.5A) < 10 <sup>-6</sup> atm. Cm <sup>3</sup> / s (He) b.a.f Dual Bridgewires 25 ms maximum 200 ± 35 ft/sec		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 fontionnement</li> <li>h�rm�ticit�</li> <li>Redondance</li> <li>Temps de Action</li> <li>Velocite de Limace</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> </ul> </li> </ul>	> 15 g Screw thd, .500-.05P.10.L-DS-2A  304L Stainless steel 52 Alloy pins  Glass to metal seal		2. CARACTERISTICQUES 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>Cablage ou connecteur</li> <li>Herm�ticit�           <ul style="list-style-type: none"> <li>Passage �lectrique</li> </ul> </li> </ul>
FIXING MODE	Thread 1/2-20 UNF-3A		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>RF Sensitivity</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>	2 1.05 ± 0.1 Ω > 2 Meg Ω / 500 VDC 1 x 10 <sup>4</sup> to 4 x 10 <sup>10</sup> cycles/second > 100 μ A / 200 VAC  25 Kv / 500 pF / 500 Ω		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>RF susceptibilit�</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>Safe no-fire current for testing</li> </ul>	> 3.5 A / 7 ms max. 3.5 A (R<0,999 95%) +77°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 contr�le</li> </ul>



ISO 9001 A9813



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Drogue Gun Cartridge used on US Air Force Advanced Concept Ejection Seat (ACES II)	Datasheet Page 1 of 2	Orig. date: 11AUG03 Rev. A: 20JUL06
4. PYROTECHNIC CHARACTERISTICS <ul style="list-style-type: none"> <li>• Initiator type</li> <li>• Principal pyrotechnic load</li> </ul>	480 mg Hi-Temp	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 -65°F +200°F 20 cycles 1hr +200°F 1x10 <sup>-6</sup> Torr (650K alt) -200°F 1x10 <sup>-6</sup> Torr (96 hr) -70°F +200°F 5 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 <ul style="list-style-type: none"> <li>- References:               <ul style="list-style-type: none"> <li>• Development date</li> <li>• Acceptance 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>	Qualified to MIL-C-25918 1980's 9392046-3785 1993 US Air Force A-10, F-15, F-16, F-22, B-1 & B 2 US Air Force Fighter & Bomber Aircraft 1908's to present US Air Force & US Allies	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>

