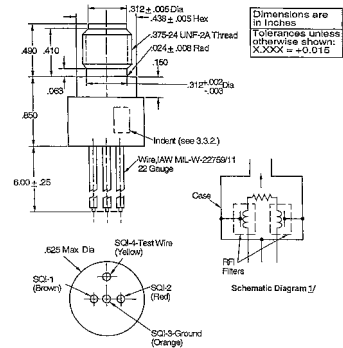
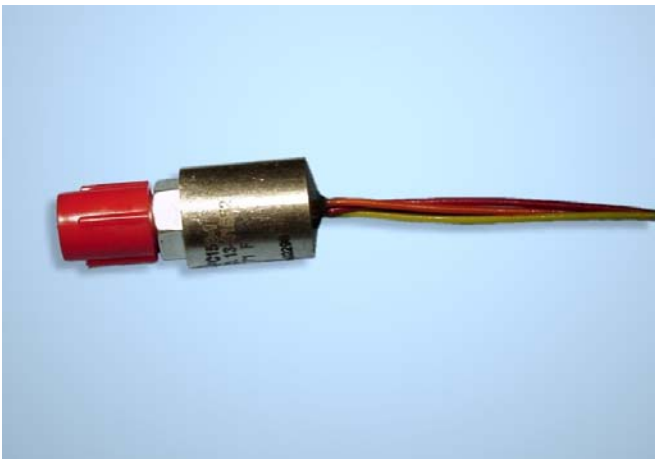




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Electronic Delay Gas Generator (Stinger)	Datasheet Page 1 of 2	Orig. issue: 04DEC01 Rev. B: 20JUL06
DEVICE	DELAY GAS GENERATOR	DISPOSITIF
TYPE	Model PC-158-1 PN 9391960	REFERENCE
1. PERFORMANCES <ul style="list-style-type: none"> All-Fire current (Bruceton Method) No-fire current Electronic time delay Hermeticity Redundancy Minimum pressure, 10 cc Fragmentation 	3.5 A (R< 0,999 95%) (+20°C) 1A/1W – 5 min (+20°C) 160 - 188ms (I= 100mA/18.5V) No leakage in distilled water @+74°C max (+165°F) 400 psig - 40ms of 1st pressure No Fragmentation when fired	1. PERFORMANCES <ul style="list-style-type: none"> Courant de feu 100% (Method de Bruceton) Courant de non-feu Temps de fontionnement h�rm�ticit� Redondance Pression minimal Fragmention
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 	32 g (0.070 lb) Wire, 22 gauge 6.0-inch long IAW MIL-W-22759/11 Stainless steel Type 303 52 Alloy pins Glass to metal seal	2. CARACTERISTIQUES MECANIKUES <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 Herm�ticit� <ul style="list-style-type: none"> Passage �lectrique Avant
FIXING MODE	Thread 3/8-24 UNF-2A	MODE DE FIXATION
INSTALLATION TORQUE	22.5 - 30 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 1.1 ± 0.15 Ω (+20°C) > 1.0 M Ω / 50 VDC > 100 μ A / 200 VAC 25 Kv / 500 pF/ 5000 Ω	3. CARACTERISTIQUES ELECTRIQUES <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
<p style="text-align: center;">CURRENT RATINGS</p> <ul style="list-style-type: none"> Maximum firing current All-fire current No-Fire current Safe no-fire current for testing 	3.5 A 3.5 A (R<0,999 95%) +20°F 1A/1W 5min (+20°C) < 10mA	<p style="text-align: center;">COURANTS LIMITES</p> <ul style="list-style-type: none"> Courant de mise � feu maximal Courant de feu 100% Courant maxi de non feu Courant maxi de contr�le



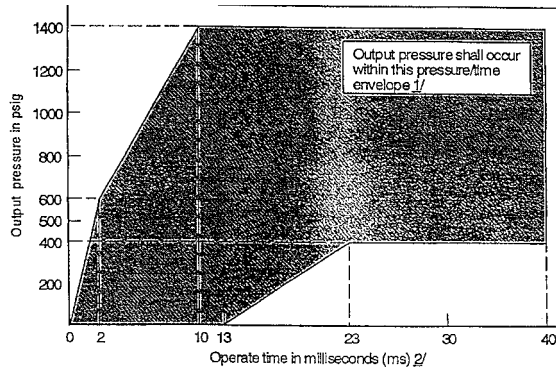
1/ Time delay circuitry not shown.
 2/ Location of wires optional provided all 4 exit the top surface of the time delay module.

Figure 2. Dimensional limitations 2/





Electronic Delay Gas Generator (Stinger)	Datasheet Page 2 of 2	Orig. issue: 04DEC01 Rev. B: 20JUL06
4. PYROTECHNIC CHARACTERISTICS <ul style="list-style-type: none"> Initiator type Principal pyrotechnic load 	PC 158-1 105mg (HSTC mix 050-S-10) 25mg Bullseye 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 Fixed frequency vibration Random vibration Humidity Thermal shock Shock Operating temperature Storage life 	20 g / 120 sec 50 Hz 15g 1hr each axis RH 80-98%@ +21°C - +71°C -46°C +71°C 5 cycles 30 min 100g 1/2 sine 10msec -40°C +60°C 10 years	5. RESISTANCE AUX CONDITIONS D'ENVIRONNEMENT <ul style="list-style-type: none"> Chocs mécaniques Accélération Vibrations frequency fixed Vibrations aléatoires Humidité Chocs thermiques Chocs Températures de fonctionnement Durée de stockage
6. DEVELOPMENT STATUS <ul style="list-style-type: none"> 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 	August 1982 US Stinger 1999 US Army Stinger Missile 1986 – present USA, NATO, SEATO	6. CONDITIONS DE DEVELOPPEMENT <ul style="list-style-type: none"> 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



- 1/ The pressure, after reaching peak pressure, shall not be less than 400 psig to 40 ms after first indication of pressure.
- 2/ After application of 3.0 amperes, minimum, following time delay.
- 3/ Pressure versus time requirement of figure 1 shall apply at high temperature (operating) (see 3.2.3.2.1) and at low temperature (operating) (see 3.2.3.2.2) and all temperatures within that range.

INT Figure 1. Pressure Versus Time Profile Requirements 3 /
 (see 3.6)

