



24225 GARNIER STREET • TORRANCE • CALIFORNIA 90505-5355 • U.S.A.  
 TELEPHONES: (310) 784-2100 • (800) 733-0321 • FAX: (310) 326-0797  
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<b>EXPLOSIVE BOLT</b>	<b>Datasheet</b>	<b>Page 1 of 2</b>	<b>Orig. Date: 12DEC00 Rev. C: 20JUL06</b>
DEVICE	EXPLOSIVE BOLT		DISPOSITIF
TYPE	Model SB4400		REFERENCE
<b>1. PERFORMANCES</b> <ul style="list-style-type: none"> <li>Tensile load capability</li> <li>Functioning time</li> <li>Sealing</li> <li>Redundancy</li> </ul>	5,000 lbs minimum < 2ms (I= 5A) Environmental resistant Single or dual bridgewire		<b>1. PERFORMANCES</b> <ul style="list-style-type: none"> <li>Résistance à la rupture</li> <li>Temps de fonctionnement</li> <li>Degree d' herméticité</li> <li>Redondance</li> </ul>
<b>2. MECHANICAL CHARACTERISTICS</b> <ul style="list-style-type: none"> <li>Weight</li> <li>Electric connection</li> </ul> <b>MATERIALS</b> <ul style="list-style-type: none"> <li>Body</li> <li>Leads or connector</li> <li>Sealing               <ul style="list-style-type: none"> <li>Feed through</li> <li>Front</li> </ul> </li> </ul>	65 g (M12 bolt) 2 wire leads  SAE grade 8 Alloy, CAD plate Or as customer specified Kovar pins  Glass to metal seal		<b>2. CARACTERISTICQUES MECANIQUES</b> <ul style="list-style-type: none"> <li>Masse</li> <li>Connexion électrique</li> </ul> <b>MATERIAUX</b> <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	312-18 UNC		MODE DE FIXATION
<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 4.5 ± 2.0 Ω > 2.0 M Ω / 500 VDC  > 100 μ A / 200 VAC  25 Kv / 500 pF / 5000 Ω		<b>3. CARACTERISTIQUES 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>
<b>CURRENT RATINGS</b> <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 (R> 0.995 95%) +20°C 100 μ F Cap Discharge-8 volts 0.1A 5min ( +160°F) < 1mA		<b>COURANTS LIMITES</b> <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>

Shown is a M 12 bolt size





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DEVICE	EXPLOSIVE BOLT	DISPOSITIF
4. PYROTECHNIC CHARACTERISTICS <ul style="list-style-type: none"> <li>Initiator type</li> <li>Principal pyrotechnic load</li> </ul>	Glass-to-Metal-Seal RDX	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>	MIL-STD-810, Procedure .IIA Method 514 F1=125Hz F2=1125Hz, W1=0.04 g2/Hz MIL-STD-518, Method 518 -70°F to +160°F -65°F to +160°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 fontionnement</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>	1985 HSTC 9364048-1 2002 US Navy 1987 Marquardt Co., US Navy	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>

**NOTE: Bolts may be ordered in any size, metric or inches with lead lengths up to 12 inches**

