

**June 2016**

**Updated July 2019**

## **MTBF Prediction GOLD SOLO BEE**

*\*The MTBF predictions were done according to MIL-STD-217F.*

Product: GOLD-SOLO BEE

Products designated: G-SOLBEE\_XX/YYY\_ \_ \_ \_

All the GOLD SOLO BEE rated XX (current rating) and the YYY (voltage rating) have the same MTBF as they were designed for similar environmental stress.

Environmental conditions: **Ground Benign, GB**

Non-mobile, temperature and humidity controlled environments readily accessible to maintenance; includes laboratory instruments and test equipment, medical electronic equipment, business scientific computer complexes, and missiles and support equipment in ground silos

Environmental conditions: **Ground Fix, GF**

Definition of GF:

Moderately controlled environments such as installation in permanent racks with adequate cooling air and possible installation in unheated building; includes permanent installation of air

Environmental conditions: **Ground, Mobile, GM**

Definition GM:

Equipment installed on wheeled or tracked vehicles and equipment manually transported; includes tactical missile ground support equipment, mobile communications equipment, tactical fire direction Systems, handheld communications equipment, laser designations and range finders. traffic control radar and communications facilities

Environmental conditions: **Airborne, Inhabited, Fighter, AIF**

Same as AIC but installed on high performance aircraft such as fighters and interceptors.

Examples include the F15, F16, F111, F/A 18, and A10 aircraft.

Environmental conditions: AIC, Airborne, Inhabited Cargo

Typical conditions in cargo compartments, which can be occupied by an aircrew. Environment extremes of pressure, temperature, shock and vibration are minimal. Examples include long mission aircraft such as the C130, C5, B52 and C141. This category also applies to inhabited areas in lower performance smaller aircraft as the T38.

**MTBF GOLD SOLO BEE,  
GROUND BENIGN(GB), GROUND FIX(GF), GROUND MOBILE(GM),  
AIRBORNE INHABITED FIGTHER (AIF)**

