



# COSPAS-SARSAT TYPE APPROVAL CERTIFICATE

For a 406 Megahertz Distress Beacon  
for use with the Cospas-Sarsat Satellite System

WHEREAS, *Microwave Monolithics Incorporated*, of , *Simi Valley, California, USA*, the manufacturer of a 406 Megahertz Distress Beacon packaged as a *PLB*, and identified as Model *MBT-040600\** or *MBT-040600D\*\** has submitted test data and had said beacon tested in *May 1999* at a facility accepted by Cospas-Sarsat at *EPG, Fort Huachuca, USA* to demonstrate that said beacon meets the applicable technical requirements for use with the Cospas-Sarsat Satellite System, as defined in documents C/S T.001 "Specification for Cospas-Sarsat 406 MHz Distress Beacons", Issue 3 - Rev.2 October 1998 and C/S T.007 "Cospas-Sarsat 406 MHz Distress Beacon Type Approval Standard", Issue 3 - Rev. 5 October 1998\*\*\*

for frequency channel *406.025 MHz*;

WHEREAS, the Cospas-Sarsat Council has determined, following a review of the test results, that the said beacon meets the Cospas-Sarsat Class 2 requirements and is rated for operating over the temperature range of *-20°C to +55°C\*\*\*\**, with battery: *Duracell DL 2/3A*

*Lithium Manganese Dioxide (LiMnO<sub>2</sub>, 6 of 2/3 A-cells)*

and

WHEREAS, said manufacturer has certified that all other units of the same type will meet said technical requirements in a similar manner to the unit subjected to test, which incorporated the following features:

- *121.5 MHz Auxiliary Radio Locating Device (25mW, continuous with 2 s. pause every 406 MHz burst)*
- *External navigation device (GPS)*
- *Self-test mode (one burst of 440 ms, format flag bit = "1")*

\* *beacon is approved for use with National Location Protocol*

\*\* *beacon is approved for use with Standard Location Protocol*

\*\*\* *only beacon model MBT-040600 was tested at facility accepted by Cospas-Sarsat; beacon model MBT-040600D is electronically identical to the model MBT-040600;*

\*\*\*\* *specified operating lifetime 24 hours.*

NOW, THEREFORE, in reliance upon the following, the Cospas-Sarsat Council does hereby certify that the 406 MHz Distress Beacon Model identified herein is compatible with the Cospas-Sarsat System as of the date of this Certificate.

Certificate No: *110*

Date: *first issued 16 June 1999, amended 13 June 2000*

Signed by:

D. Levesque  
Head of Cospas-Sarsat Secretariat

## NOTE, HOWEVER:

1. This certificate does not authorize the operation or sale of any 406 MHz distress beacon. Such authorization may require type acceptance by national administrations in countries where the beacon will be distributed, and may also be subject to national licensing requirements.
2. This certificate is intended only as a formal notification to the above identified manufacturer that the Cospas-Sarsat Council has determined, on the basis of test data of a beacon submitted by the manufacturer, that 406 MHz distress beacons of the type identified herein meet the standards for use with the Cospas-Sarsat System. This certificate is not a warranty and Cospas-Sarsat hereby expressly disclaims any and all liability arising out of or in connection with the issuance, use, or misuse of this certificate.
3. This certificate is subject to revocation by the Cospas-Sarsat Council should the beacon type for which it is issued cease to meet the Cospas-Sarsat specification. A new certificate may be issued after satisfactory corrective action has been taken and correct performance demonstrated in accordance with to the Cospas-Sarsat Type Approval Standard.