

# MVME-BAT

## MVMExxx-xxx-BAT-16 and MVME162-5xx-BAT-20 as FB1225-Battery Replacement

Replacement for Lithium Battery Type RAYOVAC FB1225

3 V Lithium Battery

137 mAh Nominal Capacity (MVMExxx-xxx-BAT-16)

- Dimensions identical to FB1225

230 mAh Nominal Capacity (MVME162-5xx-BAT-20)

- Dimensions similar to FB1225 (25% wider)

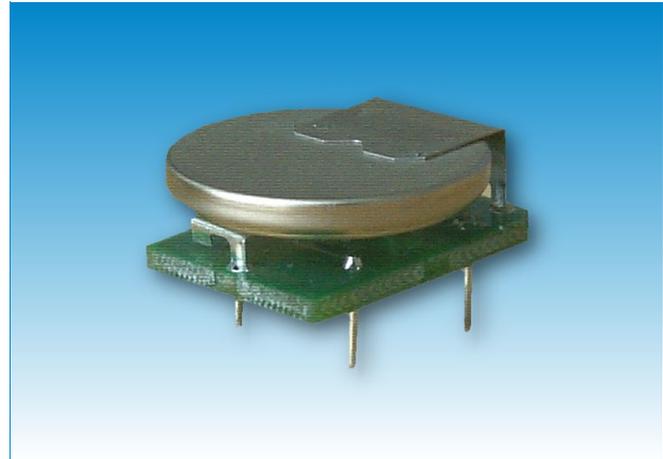


Figure 1: View of MVME162-5xx-BAT-20

### Standard or enhanced Version?

The MVMExxx-xxx-BAT-16 is generally suitable to replace the battery RAYOVAC FB1225H2 in all applications. It offers a capacity which is about factor 1.4 larger than those of the FB1225H2.

The MVME162-5xx-BAT-20 has the advantage of a factor 2.4 larger capacity than those of the FB1225H2 but may not replace the FB1225H2 in every application because of slightly larger outline dimensions.

### Note:

Please check the dimensions given in figure 2 to determine which type of the MVME-BAT will fit to your application!

### Installation

The MVME-BAT has four pins with a diameter of 0.71 mm which fit exactly into the socket of the RAYOVAC FB1225H2 battery at Motorola CPU boards.

For other applications 2.54 mm (100 mil) pitch socket strips can be used. Contact systems for 0.635 mm (.025") square post pins e.g. Samtec ESW socket strips are suitable.

CPU	Suitable MVME-BAT Modules
MVME162-5xx	MVME162-5xx-BAT-20 or MVMExxx-xxx-BAT-16
MVME162-2xx MVME172-2xx MVME172-3xx	MVMExxx-xxx-BAT-16

Table: Application examples

### Safety Note

WARNING: A short-cut of the battery may cause a fire!

If you prefer soldering please note that the pins of the MVME-BAT are fixed with standard lead-free solder at their PCB and run the risk to get desoldered during the soldering process. Desoldered pins may cause a short-cut of the battery.

[Link to battery safety data sheet](#)

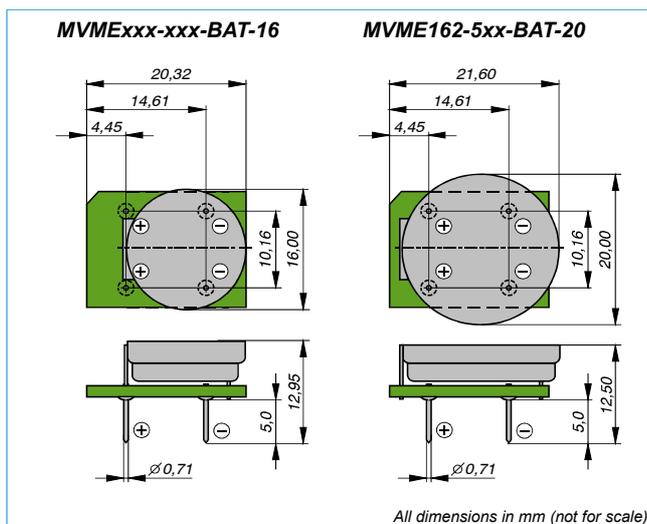


Figure 2: Dimensional drawings

### Technical Specifications:

Battery data (depending on module type):		
Product	MVME162-5xx-BAT-20	MVMExxx-xxx-BAT-16
Nominal voltage	$U_{Nom} = 3\text{ V}$	$U_{Nom} = 3\text{ V}$
Nominal capacity*	$C_{Nom} = 230\text{ mAh}$	$C_{Nom} = 137\text{ mAh}$
Continuous standard load*	$I_{Nom} = 0.4\text{ mA}$	$I_{Nom} = 0.1\text{ mA}$
Continuous maximum load*	$I_{Max} = 3.0\text{ mA}$	not defined
Operating temperature	$T_{Nom} = 23\text{ °C}$ $T_{Max} = -30\text{ °C} \dots +70\text{ °C}$	$T_{Nom} = 23\text{ °C}$ $T_{Max} = -30\text{ °C} \dots +60\text{ °C}$
Self-discharge*	< 1 % p.a.	< 1 % p.a.
Technology	Lithium battery, metal case	

\* These data are valid at an operating temperature of 23 °C.

### Dimensions:

Outer dimensions and pin layout See dimensional drawing at the left, footprint in 2.54 mm (100 mil) pitch

Contact pins round cross-section, diameter 0.71 mm (TCW22)

### Order Information:

Hardware		Order No.
MVME162-5xx-BAT-20	Battery module, 3 V, 230 mAh	V.1136.71
MVMExxx-xxx-BAT-16	Battery module, 3 V, 137 mAh	V.1136.72