

# Manganese Lithium Rechargeable Batteries (ML Series)

## TAB CONFIGURATIONS

Model No.	Tab Type		Configuration Diagram No.	Nominal	
	With Insulation Wrap	Without Insulation Wrap		Voltage (V)	Capacity (mAh)
ML414 <sup>1</sup>		/F9D	1	3	1.2
ML421 <sup>1</sup>	Contact Panasonic for details on available tab configurations.			3	2.3
ML614		/F9F	2	3	3.4
ML621		/F9D	3	3	5.0
ML920		/F9D	4	3	11.0
ML1220	/F1A		5	3	17.0
ML1220	/V1A		6	3	17.0
ML1220	/F1B		7	3	17.0
ML2020	/G1A		8	3	45.0
ML2020	/H1C		9	3	45.0
ML2020	/V1A		10	3	45.0

<sup>1</sup>Contact Panasonic for the latest information on these models.

### Notes:

- A) To ensure proper electrical contact, it is recommended that rechargeable coin cell batteries be used with tabs for PC Board mounting. Please consult Panasonic before planning a design that will use bare coin cells without tabs (e.g. using a holder).
- B) Please contact Panasonic for requests on custom tab configurations. Minimum order requirements may apply.

# ML Series Tab Configurations

## DIMENSIONS / MM

Model No.	Dimensions/mm	Model No.	Dimensions/mm
ML414/F9D		ML614/F9F	
ML621/F9D		ML920/F9D	
ML1220/F1A		ML1220/V1A	
ML1220/F1B		ML2020/G1A	
ML2020/H1C		ML2020/V1A	