Manganese Lithium Rechargeable Batteries (ML Series)

TAB CONFIGURATIONS

Model No.	Tab Type		Configuration	Nominal	
	With Insulation Wrap	Without Insulation Wrap	Diagram No.	Voltage (V)	Capacity (mAh)
ML414S ¹		/F9D	1	3	1.2
ML421S1	Contact Panasonic for details on available tab configurations.			3	2.3
ML612S			2	3	2.6
ML614S			3	3	3.4
ML616S			4	3	2.9
ML621S		/F9D	5	3	5.0
ML920S		/F9F	6	3	11.0
ML1220	/F1A	/F9D	7	3	17.0
ML1220	/V1A	/F9D	8	3	17.0
ML1220	/F1B	/F9D	9	3	17.0
ML2020	/V1A		10	3	45.0
ML2020	/G1A		11	3	45.0
ML2020	/H1C		12	3	45.0

¹Contact 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	
ML414S/F9D	Max 4.8 Max 1.45 Max 1.45 Max 1.45 Max 1.45 Max 1.45 Max 1.45 Max 1.45	ML612S/F9D	2 (6.8 ±0.15) 1.55 ± 0.15 (1.50 ± 0.15) (1.5	
ML614S/F9F	3	ML616S/F9D	1.85 ± 0.15 0.5 ± 0.1 1.85 ± 0.15 0.15 ± 0.05 1.85 ± 0.15 0.15 ± 0.05 1.5 Pre-soldered (Both O and Φ terminals) *1: allowance: ± 05.mm (Difference between Φ terminal and Φ terminal)	
ML621S/F9D	S Ø6.8 ^{±,0} ,15	ML920S/F9D	6 Ø9.5 max 99.5 max 0.5	
ML1220/F1A	Insulation Wrap (lavender) 12.5±0.3 2.6 2.6 2.6 2.6 0.15	ML1220/V1A	(avender) 12.5 ± 0.3 Insulation Wrap (lavender) 4.5 ± 0.2 12.5 ± 0.3 13.5 ± 0.1 15.5 ± 0.1 15.5 ± 0.1 15.5 ± 0.1 15.5 ± 0.1 15.5 ± 0.1	

ML Series Tab Configurations

DIMENSIONS / MM

Model No.	Dimensions/mm	Model No.	Dimensions/mm	
ML1220/F1B	Insulation Wrap (lavender) $ \begin{array}{ccccccccccccccccccccccccccccccccccc$	ML2020/V1A	1.8 10.2±0.5 0.2 2.7	
ML2020/G1A	Insulation Wrap (Lavender) 20 ± 0.3 20 ± 0.3 22 2.7 ± 0.3 4 ± 0.2 2.5 ± 1 0.75 ± 0.2 2.5 ± 1 0.75 ± 0.2 Pre-soldered	ML2020/H1C	Insulation Wrap (lavender) 20.5 ± 1 Second Prescription 1.8 ± 0.2 ± 1	