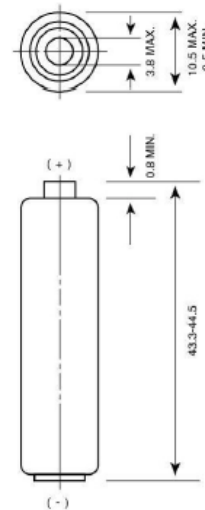


Primary Alkaline Manganese Cylindrical

**Data Sheet**

Type number	4103
Designation IEC System	LR03 Zn-MnO <sub>2</sub> (Alkaline)
Shelf Life (Coding)*	7 years
Nominal Voltage [V]	1.5
Typical Capacity C [mAh]	1.200 (discharge with high-resistance)
Operating temperature:	- 20°C to 54°C (45 % - 85 % RH)
Storage temperature:	- 30°C to 45°C (45 % - 85 % RH)
Weight, approx. [g]	11
Volume [ccm]	3.8

Dimensions [mm]



Unit: mm

Typical Capacities (at 20°C)

<b>Discharge Type</b>	<b>Load</b>	<b>End Voltage [V]</b>	<b>0.9</b>
4 M/H, 8 H/D, 7 D/W	5.1 Ω	Time [m]	220
Portable Lighting			
<b>Discharge Type</b>	<b>Load</b>	<b>End Voltage [V]</b>	<b>0.9</b>
1 H/D, 7 D/W	10 Ω	Time [m]	480
Tape Recorders			
<b>Discharge Type</b>	<b>Load</b>	<b>End Voltage [V]</b>	<b>0.9</b>
4 H/D, 7 D/W	75 Ω	Time [h]	72.5
Transistor Radios			

\* In consideration of typical loss of capacity at storage and application.