

**battery type:** Alkaline Manganese (Mercury free)  
**battery size:** IEC: LR03; JIS: AM-4; ANSI: AAA; MN2400; Micro  
**chemical system:** Zn / KOH-H<sub>2</sub>O / MnO<sub>2</sub>

**nominal voltage:** 1.5 V  
**open circuit voltage:** 1.57...1.62 V new battery  
 1.55...1.62 V after 1 year storage at 20°C

**Conditions**

**capacity rated:** 1200 mAh all measurements at 20°C ambient discharge at 10mA load; 24hours/day End Voltage (EV): 0.8V  
 1070 mAh discharge at 75ohms load; 24hours/day End Voltage (EV): 0.8V  
**minimum:** 1050 mAh discharge at 20mA constant current End Voltage (EV): 0.8V  
 300 mAh discharge at 500mA constant current End Voltage (EV): 0.8V

**typical service output (new batteries)**

≥ 560 cycles load resistor 3.6ohms; EV: 0.9V discharge 15s/m 24h/d  
 ≥ 180 min load resistor: 5.1ohms; EV: 0.9V discharge 4min/h 8h/d  
 ≥ 414 min load resistor: 10ohms; EV: 0.9V discharge 1h/d  
 ≥ 16 h load resistor: 20ohms; EV: 0.9V discharge 24h/d  
 ≥ 37 h load resistor: 43ohms; EV: 0.9V discharge 4h/d

**internal resistance:** ≤ 0.3 Ω at 1kHz, sine wave measurement according to IEC 896-2

**shelf life:** 7 years under proper storage conditions

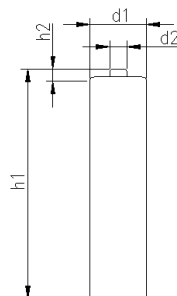
**leakage resistance**

over discharge: no leakage 20Ω continuous discharge for 48h; ta: 20°C; RH: 60±15%  
 high temperature: no leakage store 20days at ta: 60°C; RH:90±5%

**ambient temperature range:** - 10...50 °C

recommended storage conditions: 5...25 °C ambient temp.  
 45...75 % rel. humidity

35 Alkaline red batteries are in this Mix-Box  
 14xMicro AAA  
 12xMignon AA  
 4xBaby C  
 4xMono D  
 1xE-Block



**mechanical specifications**

cell dimensions  
 diameter d1: 10.4 - 0.5 mm  
 diameter d2: 3.6 - 0.4 mm  
 height h1: 44.4 - 0.6 mm  
 height h2: 1.2 - 0.35 mm  
 weight: 11.5 ± 1.5 g



**ANSMANN Specifications for model:**

data sheet no. / part no.	1520-0004
supplier no.	701381
author / date	TG / 09.07.2014

**Ansmann 35pcs Battery Mix Box  
 RED Alkaline AAA - size 14pcs**

**battery type:** Alkaline Manganese (Mercury free)  
**battery size:** IEC: LR6; JIS: AM-3; ANSI: AA; MN1500; Mignon  
**chemical system:** Zn / KOH-H<sub>2</sub>O / MnO<sub>2</sub>

**nominal voltage:** 1.5 V  
**open circuit voltage:** 1.57...1.62 V new battery  
 1.55...1.62 V after 1 year storage at 20°C

**Conditions**

**capacity rated:** 2700 mAh all measurements at 20°C ambient  
 discharge at 10mA load; 24hours/day  
 End Voltage (EV): 0.8V  
 2400 mAh discharge at 75ohms load; 24hours/day  
 End Voltage (EV): 0.8V  
**minimum:** 2200 mAh discharge at 35mA constant current  
 End Voltage (EV): 0.8V  
 700 mAh discharge at 1000mA constant current  
 End Voltage (EV): 0.8V

**typical service output (new batteries)**

≥ 330 cycles discharge at 1000mA; EV: 0.9V  
 discharge 10s/m 1h/d  
 ≥ 79 h load resistor: 43ohms; EV: 0.9V  
 discharge 4h/d  
 ≥ 38 min discharge at 1000mA; EV: 0.9V  
 discharge 24h/d  
 ≥ 17.5 h load resistor: 10ohms; EV: 0.9V  
 discharge 24h/d  
 ≥ 6.2 h discharge at 250mA; EV: 0.9V  
 discharge 1h/d

**internal resistance:** ≤ 0.25 Ω at 1kHz, sine wave measurement  
 according to IEC 896-2

**shelf life:** 7 years under proper storage conditions

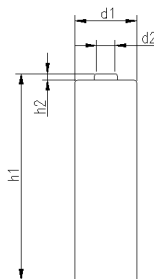
**leakage resistance**

over discharge: no leakage 10Ω continuous discharge for 48h; ta: 20°C; RH: 60±15%  
 high temperature: no leakage store 20days at ta: 60°C; RH:90±5%

ambient temperature  
**range:** - 10...50 °C

recommended storage  
 conditions: 5...25 °C ambient temp.  
 45...75 % rel. humidity

35 Alkaline red batteries are in this Mix-Box  
 14xMicro AAA  
 12xMignon AA  
 4xBaby C  
 4xMono D  
 1xE-Block



**mechanical specifications**

cell dimensions  
 diameter d1: 14.4 - 0.5 mm  
 diameter d2: 5.4 - 0.5 mm  
 height h1: 50.4 - 0.5 mm  
 height h2: 1.7 - 0.5 mm  
 weight: 23 ± 2 g



**ANSMANN Specifications for model:**

**Ansmann 35pcs Battery Mix Box  
 RED Alkaline AA - size 12pcs**

data sheet no. / part no.	1520-0004
supplier no.	701381
author / date	TG / 09.07.2014

**battery type:** Alkaline Manganese (Mercury free)  
**battery size:** IEC: LR14; JIS: AM-2; ANSI: C; MN1400; Baby  
**chemical system:** Zn / KOH-H<sub>2</sub>O / MnO<sub>2</sub>

**nominal voltage:** 1.5 V  
**open circuit voltage:** 1.57...1.62 V new battery  
 1.55...1.62 V after 1 year storage at 20°C

**capacity rated:** 7200 mAh all measurements at 20°C ambient  
 discharge at 25mA load; 24h/day  
 End Voltage (EV): 0.8V  
 6800 mAh discharge at 20ohms load; 24h/day  
 End Voltage (EV): 0.9V

**minimum:** 5800 mAh discharge at 75mA constant current  
 End Voltage (EV): 0.8V  
 2250 mAh discharge at 1000mA constant current  
 End Voltage (EV): 0.8V

**typical service output (new batteries)**

- ≥ 18 h load resistor 3.9ohms; EV: 0.9V  
discharge 4min/h 8h/d
- ≥ 18 h load resistor: 3.9ohms; EV: 0.8V  
discharge 1h/d
- ≥ 31 h load resistor: 6.8ohms; EV: 0.9V  
discharge 1h/d
- ≥ 16 h load resistor: 3.9ohms; EV: 0.9V  
discharge 24h/d
- ≥ 100 h load resistor: 20ohms; EV: 0.9V  
discharge 4h/d

**internal resistance:** ≤ 0.2 Ω at 1kHz, sine wave measurement  
according to IEC 896-2

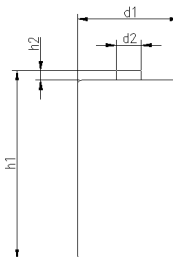
**shelf life:** 7 years under proper storage conditions

**leakage resistance**  
 over discharge: no leakage 3.9ohms continuous discharge for 48h; ta: 20°C; RH: 60±15%  
 high temperature: no leakage store 20days at ta: 60°C; RH:90±5%

**ambient temperature range:** - 10...50 °C

**recommended storage conditions:** 5...25 °C ambient temp.  
45...75 % rel. humidity


35 Alkaline red batteries are in this Mix-Box  
 14xMicro AAA  
 12xMignon AA  
 4xBaby C  
 4xMono D  
 1xE-Block



**mechanical specifications**

**cell dimensions**  
 diameter d1: 26.0 - 1.0 mm  
 diameter d2: 7.0 - 1.0 mm  
 height h1: 50.0 - 1.0 mm  
 height h2: 2.0 - 0.4 mm  
 weight: 72 ± 3 g



	<b>ANSMANN Specifications for model:</b>	<b>Ansmann 35pcs Battery Mix Box RED Alkaline C - size 4pcs</b>
	data sheet no. / part no.	1520-0004
	supplier no.	701381
	author / date	TG / 09.07.2014

**battery type:** Alkaline Manganese (Mercury free)  
**battery size:** IEC: LR20; JIS: AM-1; ANSI: D; MN1300; Mono  
**chemical system:** Zn / KOH-H<sub>2</sub>O / MnO<sub>2</sub>

**Conditions**

**nominal voltage:** 1.5 V  
**open circuit voltage:** 1.57...1.62 V new battery  
 1.55...1.62 V after 1 year storage at 20°C

**capacity rated:** 16000 mAh all measurements at 20°C ambient  
 discharge at 25mA load; 24h/day  
 End Voltage (EV): 0.8V  
 13500 mAh discharge at 10ohms load; 24h/day  
 End Voltage (EV): 0.9V

**minimum:** 11500 mAh discharge at 100mA constant current  
 End Voltage (EV): 0.8V  
 4500 mAh discharge at 1000mA constant current  
 End Voltage (EV): 0.8V

**typical service output (new batteries)**

≥ 18.5 h load resistor 2.2ohms; EV: 0.9V  
 discharge 4min/h 8h/d  
 ≥ 35 h load resistor: 3.9ohms; EV: 0.9V  
 discharge 1h/d  
 ≥ 20.5 h load resistor: 2.2ohms; EV: 0.8V  
 discharge 1h/d  
 ≥ 16.5 h load resistor: 2.2ohms; EV: 0.9V  
 discharge 24h/d  
 ≥ 112 h load resistor: 10ohms; EV: 0.9V  
 discharge 4h/d

**internal resistance:** ≤ 0.15 Ω at 1kHz, sine wave measurement  
 according to IEC 896-2

**shelf life:** 5 years under proper storage conditions

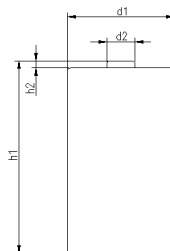
**leakage resistance**

over discharge: no leakage 2.2ohms continuous discharge for 48h; ta: 20°C; RH: 60±15%  
 high temperature: no leakage store 20days at ta: 60°C; RH:90±5%

**ambient temperature range:** - 10...50 °C

recommended storage conditions: 5...25 °C ambient temp.  
 45...75 % rel. humidity

35 Alkaline red batteries are in this Mix-Box  
 14xMicro AAA  
 12xMignon AA  
 4xBaby C  
 4xMono D  
 1xE-Block



**mechanical specifications**

cell dimensions  
 diameter d1: 34.0 - 1.0 mm  
 diameter d2: 9.0 - 1.0 mm  
 height h1: 61.0 - 1.4 mm  
 height h2: 3.0 - 0.5 mm  
 weight: 138 ± 7 g

	<b>ANSMANN Specifications for model:</b>	<b>Ansmann 35pcs Battery Mix Box RED Alkaline D - size 4pcs</b>
	data sheet no. / part no.	1520-0004
	Version no.	701381
	author / date	TG / 09.07.2014

**battery type:** Alkaline Manganese (Mercury free)  
**battery size:** IEC: 6LR61; JIS: 6AM6; ANSI: E; MN1604; 9V-Block  
**chemical system:** Zn / KOH-H<sub>2</sub>O / MnO<sub>2</sub>

**nominal voltage:** 9 V  
**open circuit voltage:** 9.2...9.8 V new battery  
 9.0...9.8 V after 1 year storage at 20°C

**capacity rated:** 500 mAh all measurements at 20°C ambient  
 discharge at 35mA load; 24hours/day  
 End Voltage (EV): 5.4V

**minimum:** 525 mAh discharge at 10mA constant current  
 End Voltage (EV): 5.4V

350 mAh discharge at 75mA constant current  
 End Voltage (EV): 5.4V

**typical service output (new batteries)**

≥ 13 h discharge at 35mA constant current; EV: 5.4V  
 discharge 24h/d

≥ 18 h discharge at 270Ω resistive load; EV: 5.4V  
 discharge 1h/d

≥ 47 h discharge at 620Ω resistive load; EV: 5.4V  
 discharge 2h/d

≥ 17 d discharge at 10KΩ resistive load (continuous); additional pulse load  
 at 620Ω for 1s/h; EV: 7.5V

**internal resistance:** ≤ 4 Ω at 1kHz, sine wave measurement  
 according to IEC 896-2

**shelf life:** 5 years under proper storage conditions

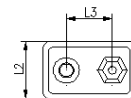
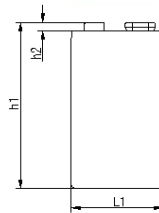
**leakage resistance**

over discharge: no leakage 20ohms continuous discharge for 48h; ta: 20°C; RH: 60±15%  
 high temperature: no leakage store 20days at ta: 60°C; RH:90±5%

**ambient temperature range:** - 10...50 °C

recommended storage conditions: 5...25 °C ambient temp.  
 45...75 % rel. humidity

35 Alkaline red batteries are in this Mix-Box  
 14xMicro AAA  
 12xMignon AA  
 4xBaby C  
 4xMono D  
 1xE-Block



**mechanical specifications**

cell dimensions  
 length L1: 26.5 -2 mm  
 length L2: 17.5 -2 mm  
 length L3: 12.7 ± 0.25 mm  
 height h1: 48.5 -2 mm  
 weight: 45 ± 3 g

plastic battery box:  
 dimensions: 138 x 128 x 65 mm  
 weight (assembled): 1480 ± 50 g



<b>ANSMANN Specifications for model:</b>	<b>Ansmann 35pcs Battery Mix Box RED Alkaline 9V E-Block 1pc</b>
data sheet no. / part no.	1520-0004
Version no.	701381
author / date	TG / 09.07.2014