

battery type: Alkaline Manganese (Mercury free)
battery size: IEC: LR03; JIS: AM-4; ANSI: AAA; MN2400; Micro
chemical system: Zn / KOH-H₂O / MnO₂

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: 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

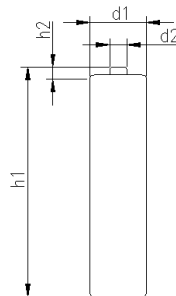
leakage resistance
 over discharge: no leakage 20Ω continuous discharge for 48h; ta: 20°C; RH: 60±15%
 high temperature: no leakage store 20days at ta: 60°C; RH:90±5%

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

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

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



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



	ANSMANN Specifications for model:	Ansmann 35pcs Battery Mix Box RED Alkaline AAA - size 14pcs
	data sheet no. / part no.	1520-0004
	author / date	TG / 09.07.2014

battery type: Alkaline Manganese (Mercury free)
battery size: IEC: LR6; JIS: AM-3; ANSI: AA; MN1500; Mignon
chemical system: Zn / KOH-H₂O / MnO₂

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)

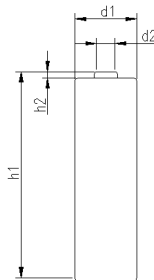
shelf life: 7 years (under proper storage conditions)

leakage resistance
 over discharge: no leakage
 high temperature: no leakage
 10Ω continuous discharge for 48h; ta: 20°C; RH: 60±15%
 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)

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 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
	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-H₂O / MnO₂

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

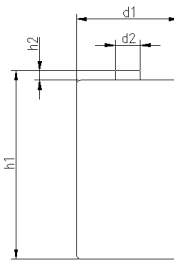
shelf life: 7 years under proper storage conditions

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



	ANSMANN Specifications for model:	Ansmann 35pcs Battery Mix Box RED Alkaline C - size 4pcs
	data sheet no. / part no.	1520-0004
	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-H₂O / MnO₂

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

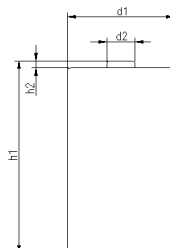
shelf life: 5 years under proper storage conditions

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

	ANSMANN Specifications for model:	Ansmann 35pcs Battery Mix Box RED Alkaline D - size 4pcs
	data sheet no. / part no.	1520-0004
	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-H₂O / MnO₂

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

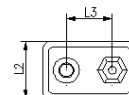
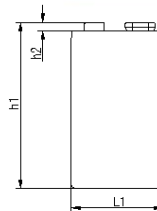
leakage resistance

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



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