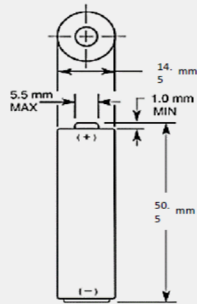




Size: AA (LR6) PC1500



Dimensions shown are IEC standards

### Acel part number (AC01050)

Constant AA alkaline battery

pk=10

#### Features and benefits

- Reliable Performance
- Excellent resistance to corrosion
- Designed to meet all major quality, safety, and environmental standards:
- Safety: IEC 60086-5
- ANSI C 18.1M, Part-2
- EU Battery Directive
- Quality: ISO 14001 and 9001, Duracell World
- Quality: ISO 14001 and 9001, Duracell World Class Continuous Improvement Program

### Technical Specification

#### ELECTRICAL CHARACTERISTICS

Nominal capacity (25 mA Cont., .8V cut-off)	3,125 mAh
Typical Voltage (at + 20 °C)	1.5 V
AC Impedance @ 1kHz	98 mΩ

#### PHYSICAL CHARACTERISTICS

Typical weight	24.7 g (0.9 oz)
Typical volume	8.4 cm <sup>3</sup> (0.5 in <sup>3</sup> )
Terminals	Flat

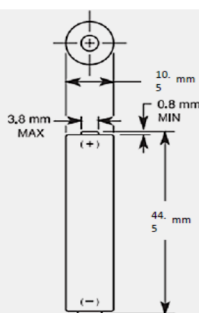
#### OPERATING & STORAGE CONDITIONS

Operating temperature range	-20°C to 54°C (-4°F to 130°F)
Recommended Storage (storage area should be clean, cool, dry and ventilated)	5°C to 30°C (41°F to 86°F)

10-AC01050-2024-V1



Size: AAA (LR03) PC2400



Dimensions shown are IEC standards

### Acel part number (AC01051)

Constant AAA alkaline battery  
pk=10

#### Features and benefits

Reliable Performance

- Excellent resistance to corrosion
- Designed to meet all major quality, safety and environmental standards:
  - o Safety: IEC 60086-5
  - o ANSI C 18.1M, Part-2
  - o EU Battery Directive
  - o Quality: ISO 14001 and 9001, Duracell World Class Continuous Improvement Program

### Technical Specification

#### ELECTRICAL CHARACTERISTICS

Nominal capacity (25mA Cont., .8V cut-off)	1,222 mAh
Typical Voltage (at + 20 °C)	1.5 V
AC Impedance @ 1kHz	155 mΩ

#### PHYSICAL CHARACTERISTICS

Typical weight	11.4 g (0.4 oz)
Typical volume	3.5 cm <sup>3</sup> (0.2 in <sup>3</sup> )
Terminals	Flat

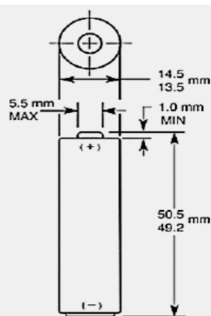
#### OPERATING & STORAGE CONDITIONS

Operating temperature range	-20°C to 54°C (-4°F to 130°F)
Recommended Storage (storage area should be clean, cool, dry and ventilated)	5°C to 30°C (41°F to 86° F)

10-AC01051-2024-V1



Size: AA (LR6) PX1500



Dimensions shown are IEC standards

### Acel part number (AC01060)

Intense AA alkaline battery

pk=10

#### Features and benefits

- Reliable Performance
- Excellent resistance to corrosion
- Designed to meet all major quality, safety and environmental standards:
  - o Safety: IEC 60086-5
  - o ANSI C 18.1M, Part-2
  - o EU Battery Directive
  - o Quality: ISO 14001 and 9001, Duracell World Class Continuous Improvement Program

### Technical Specification

#### ELECTRICAL CHARACTERISTICS

Nominal capacity (25 mA Cont., .8V cut-off)	3,112 mAh
Typical Voltage (at + 20 °C)	1.5 V
AC Impedance @ 1kHz	68 mΩ

#### PHYSICAL CHARACTERISTICS

Typical weight	24.3 g (0.9 oz)
Typical volume	8.4 cm <sup>3</sup> (0.5 in <sup>3</sup> )
Terminals	Flat

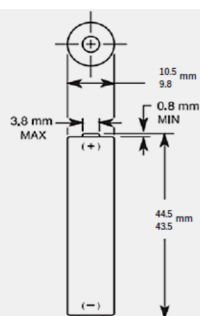
#### OPERATING & STORAGE CONDITIONS

Operating temperature range	-20°C to 54°C (-4°F to 130°F)
Recommended Storage (storage area should be clean, cool, dry and ventilated)	5°C to 30°C (41°F to 86°F)

10-AC01060-2024-V1



Size: AAA (LR03) PX2400



Dimensions shown are IEC standards

**Acel part number (AC01061)**

**Intense AAA alkaline battery**

**pk=10**

### Features and benefits

- Reliable Performance
- Excellent resistance to corrosion
- Designed to meet all major quality, safety and environmental standards:
  - o Safety: IEC 60086-5
  - o ANSI C 18.1M, Part-2
  - o EU Battery Directive
  - o Quality: ISO 14001 and 9001, Duracell World Class Continuous Improvement Program

### Technical Specification

#### ELECTRICAL CHARACTERISTICS

Nominal capacity (5 mA Cont., .8V cut-off)	1,461 mAh
Typical Voltage (at + 20 °C)	1.5 V
AC Impedance @ 1kHz	129 mΩ

#### PHYSICAL CHARACTERISTICS

Typical weight	11.6 g (0.4 oz)
Typical volume	3.5 cm <sup>3</sup> (0.2 in <sup>3</sup> )
Terminals	Flat

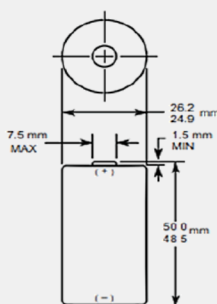
#### OPERATING & STORAGE CONDITIONS

Operating temperature range	-20°C to 54°C (-4°F to 130°F)
Recommended Storage (storage area should be clean, cool, dry and ventilated)	5°C to 30°C (41°F to 86°F)

**10-AC01061-2024-V1**



Size: C (LR14) PX1400



Dimensions shown are IEC standards

**Acel part number (AC01062)**

**Intense C alkaline battery pk=10**

### Features and benefits

- Reliable Performance
- Excellent resistance to corrosion
- Designed to meet all major quality, safety and environmental standards:
  - o Safety: IEC 60086-5
  - o ANSI C 18.1M, Part-2
  - o EU Battery Directive
  - o Quality: ISO 14001 and 9001, Duracell World Class Continuous Improvement Program

### Technical Specification

#### ELECTRICAL CHARACTERISTICS

Nominal capacity (50 mA Cont., .8V cut-off)	7,933 mAh
Typical Voltage (at + 20 °C)	1.5 V
AC Impedance @ 1kHz	150 mΩ

#### PHYSICAL CHARACTERISTICS

Typical weight	70.0 g (2.5 oz)
Typical volume	26.9 cm <sup>3</sup> (1.6 in <sup>3</sup> )
Terminals	Flat

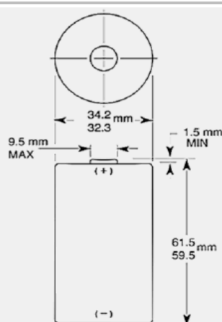
#### OPERATING & STORAGE CONDITIONS

Operating temperature range	-20°C to 54°C (-4°F to 130°F)
Recommended Storage (storage area should be clean, cool, dry and ventilated)	5°C to 30°C (41°F to 86° F)

**10-AC01062-2024-V1**



Size: D (LR20) PX1300



Dimensions shown are IEC standards

**Acel part number (AC01063)**

**Intense D alkaline battery pk=10**

### Features and benefits

- Reliable Performance
- Excellent resistance to corrosion
- Designed to meet all major quality, safety and environmental standards:
  - o Safety: IEC 60086-5
  - o ANSI C 18.1M, Part-2
  - o EU Battery Directive
  - o Quality: ISO 14001 and 9001, Duracell World Class Continuous Improvement Program

### Technical Specification

#### ELECTRICAL CHARACTERISTICS

Nominal capacity (50 mA Cont., .8V cut-off)	15,660 mAh
Typical Voltage (at + 20 °C)	1.5 V
AC Impedance @ 1kHz	136 mΩ

#### PHYSICAL CHARACTERISTICS

Typical weight	140.0 g (5 oz)
Typical volume	56.4 cm <sup>3</sup> (3.4 in <sup>3</sup> )
Terminals	Flat

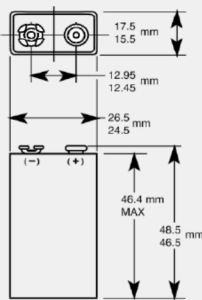
#### OPERATING & STORAGE CONDITIONS

Operating temperature range	-20°C to 54°C (-4°F to 130°F)
Recommended Storage (storage area should be clean, cool, dry and ventilated)	5°C to 30°C (41°F to 86° F)

**10-AC01063-2024-V1**



Size: 9V (6LR61) PX1604



Dimensions shown are IEC standards

### Acel part number (AC01064)

Intense 9V alkaline battery

pk=10

#### Features and benefits

- Reliable Performance
- Excellent resistance to corrosion
- Designed to meet all major quality, safety and environmental standards:
  - o Safety: IEC 60086-5
  - o ANSI C 18.1M, Part-2
  - o EU Battery Directive
  - o Quality: ISO 14001 and 9001, Duracell World Class Continuous Improvement Program

### Technical Specification

#### ELECTRICAL CHARACTERISTICS

- |   |          |
|---|----------|
| ▪ Nominal capacity (2 mA Cont., 5V cut-off) | 692 mAh  |
| ▪ Typical Voltage (at + 20 °C)              | 9 V      |
| ▪ AC Impedance @ 1kHz                       | 1,692 mΩ |

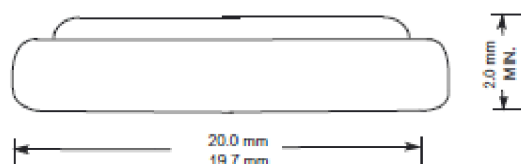
#### PHYSICAL CHARACTERISTICS

- |                  |   |
|------------------|---|
| ▪ Typical weight | 48.7 g (1.6 oz)                             |
| ▪ Typical volume | 22.8 cm <sup>3</sup> (1.4 in <sup>3</sup> ) |
| ▪ Terminals      | Miniature snap                              |

#### OPERATING & STORAGE CONDITIONS

- |  |                                  |
|--|----------------------------------|
| ▪ Operating temperature range  | -20°C to 54°C<br>(-4°F to 130°F) |
| ▪ Recommended Storage (storage area should be clean, cool, dry and ventilated) | 5°C to 30°C<br>(41°F to 86°F)    |

10-AC01064-2024-V1



**Acel part number (AC01065)**

**Intense 2032 lithium battery  
pk=5**

### Features and benefits

- High voltage response, stable during most of the lifetime of the application
- Reliable Performance
- Child-Safe Markings & Retail Packaging
- Wide operating temperature range (-20°C / +60°C)
- Low self-discharge with long operating life (<2% after 1 year of storage at + 20 °C)
- Excellent resistance to corrosion
- Designed to meet all major quality, safety and environment standards:
  - Safety: IEC 60086-4
  - Transport: UN 38.3
  - REACH compliance
  - Quality: ISO 9001, Duracell World Class Continuous Program

### Technical Specification

▪ Nominal capacity (15kΩ Cont., 2.0 V cut-off)	245 mAh
▪ Nominal voltage (at + 20 °C)	3.0 V
▪ Standard Continuous Discharge Current	0.5 mA
▪ Maximum Continuous Discharge Current	6 mA
▪ Maximum Pulse Discharge Current at 1 sec	20 mA
▪ Nominal Energy	735 mWh
▪ AC Impedance @ 1kHz	20Ω

**10-AC01065-2024-V1**

### Acel part number (AC01066)

Intense 2025 lithium battery  
pk=5

#### Features and benefits

- Industry Highest Cell Capacity & High Energy
- High voltage response, stable during most of the lifetime of the application
- Reliable Performance
- Child-Safe Markings & Retail Packaging
- Wide operating temperature range (-20°C / +60°C)
- Low self-discharge with long operating life (<2% after 1 year of storage at + 20 °C)
- Excellent resistance to corrosion
- Designed to meet all major quality, safety and environment standards:
  - Safety: IEC 60086-4
  - Transport: UN 38.3
  - REACH compliance
  - Quality: ISO 9001, Duracell World Class Continuous Program

#### Technical Specification

▪ Nominal capacity (15kΩ Cont., 2.0 V cut-off)	165 mAh
▪ Nominal voltage (at + 20 °C)	3.0 V
▪ Standard Continuous Discharge Current	0.2 mA
▪ Maximum Continuous Discharge Current	6 mA
▪ Maximum Pulse Discharge Current at 1 sec	20 mA
▪ Nominal Energy	495 mWh
▪ AC Impedance @ 1kHz	24Ω

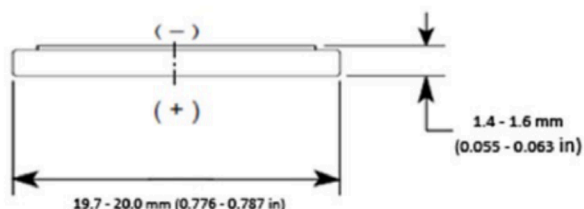
10-AC01066-2024-V1

### Acel part number (AC01067)

Intense 2016 lithium battery  
pk=5

#### Features and benefits

- Industry Highest Cell Capacity & High Energy
- High voltage response, stable during most of the lifetime of the application
- Reliable Performance
- Child-Safe Markings & Retail Packaging
- Wide operating temperature range (-20°C / +60°C)
- Low self-discharge with long operating life (<2% after 1 year of storage at +20 °C)
- Excellent resistance to corrosion
- Designed to meet all major quality, safety and environment standards:
  - Safety: IEC 60086-4
  - Transport: UN 38.3
  - REACH compliance
  - Quality: ISO 9001, Duracell World Class Continuous Program



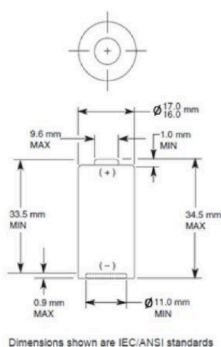
#### Technical Specification

▪ Nominal capacity (15kΩ Cont., 2.0 V cut-off)	85 mAh
▪ Nominal voltage (at +20 °C)	3.0 V
▪ Standard Continuous Discharge Current	0.1 mA
▪ Maximum Continuous Discharge Current	6 mA
▪ Maximum Pulse Discharge Current at 1 sec	20 mA
▪ Nominal Energy	255 mWh
▪ AC Impedance @ 1kHz	8.5Ω

10-AC01067-2024-V1



Size: CR123A



### Acel part number (AC01068)

Intense CR123 alkaline battery  
pk=10

#### Features and benefits

- Industry Highest Cell Capacity & High Energy
- High voltage response, stable during most of the lifetime of the application
- Reliable Performance
- Wide operating temperature range (-20°C/ + 75°C)
- Low self-discharge with long operating life (<1% after 1 year of storage at + 20 °C)
- Excellent resistance to corrosion
- Designed to meet all major quality, safety, and environment standards:
  - o Safety: IEC 60086-4
  - o Transport: UN 38.3
  - o RoHS and REACH compliance
  - o Quality: ISO 9001, Duracell World Class Continuous Program

### Technical Specification

#### ELECTRICAL CHARACTERISTICS

Nominal capacity (100 Ohm Cont, 2 V cut-off)	1600 mAh
Typical Voltage (at +20°C)	3.2-3.3 V
Standard Continuous Discharge Current	20 mA
Maximum Continuous Discharge Current	60 mA
Maximum Abnormal Charge Current	25 mA
Nominal Energy	4.35 Wh
AC Impedance @ 1kHz	350 mOhm

#### PHYSICAL CHARACTERISTICS

Typical weight	17.0g (0.60 oz.)
Li metal content	approx. 0.53 g

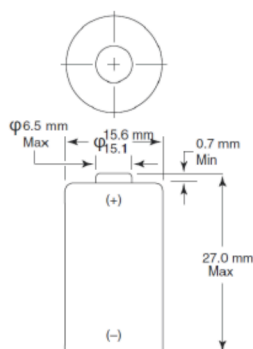
#### OPERATING & STORAGE CONDITIONS

Operating temperature range	-20°C to 75°C (-4°F to 167°F)
Recommended Storage Storage area should be clean, cool (preferably not exceeding +30°C), dry and ventilated	5°C to 30°C (41°F to 86° F)

10-ACXXXX-2024-V1



Size: CR2



### Acel part number (AC01069)

### Intense CR2 alkaline battery

pk=10

#### Features and benefits

- Industry Highest Cell Capacity & High Energy
- High voltage response, stable during most of the lifetime of the application
- Reliable Performance
- Wide operating temperature range (-20°C/ + 75°C)
- Low self-discharge with long operating life (<1% after 1 year of storage at + 20 °C)
- Excellent resistance to corrosion
- Designed to meet all major quality, safety, and environment standards:
  - o Safety: IEC 60086-4
  - o Transport: UN 38.3
  - o RoHS and REACH compliance
  - o Quality: ISO 9001, Duracell World Class Continuous Program

### Technical Specification

#### ELECTRICAL CHARACTERISTICS

Nominal capacity (100 Ohm Cont, 2 V cut-off)	920 mAh
Typical Voltage (at +20°C)	3.2-3.3 V
Standard Continuous Discharge Current	20 mA
Maximum Continuous Discharge Current	60 mA
Maximum Abnormal Charge Current	20 mA
Nominal Energy	2.55 Wh
AC Impedance @ 1kHz	500 mOhm

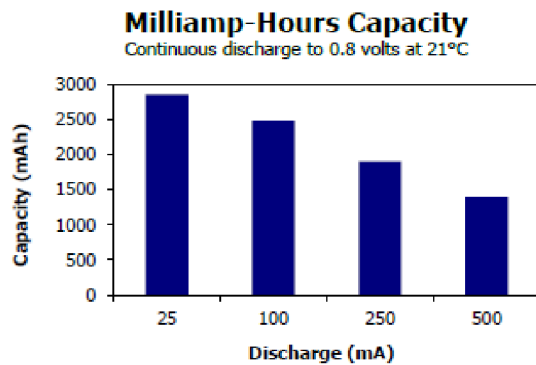
#### PHYSICAL CHARACTERISTICS

Typical weight	11.0g (0.39 oz.)
Li metal content	approx. 0.30 g

#### OPERATING & STORAGE CONDITIONS

Operating temperature range	-20°C to 75°C (-4°F to 167°F)
Recommended Storage Storage area should be clean, cool (preferably not exceeding +30°C), dry and ventilated	5°C to 30°C (41°F to 86°F)

10-AC01069-2024-V1



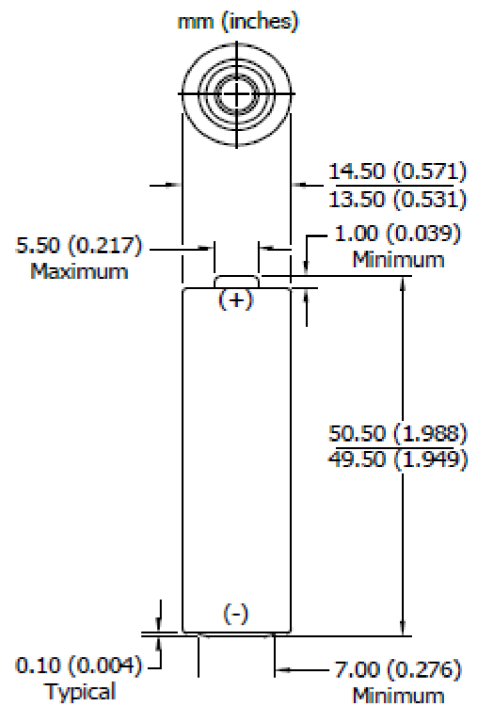
**Acel part number (AC02050)**

Industrial AA alkaline battery

pk=10

Features and benefits

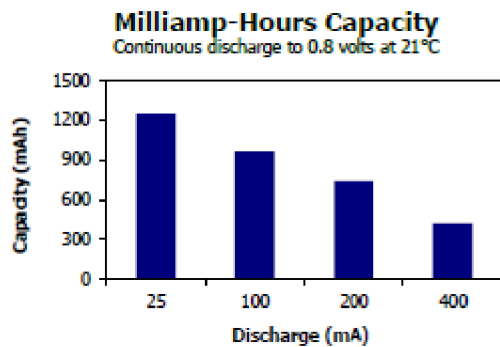
### Industry Standard Dimensions



### Technical Specification

Attribute	Value
Classification:	Alkaline
Chemical System:	Zinc-Manganese Dioxide (Zn/MnO <sub>2</sub> )
Designation:	ANSI-15A, IEC-LR6
Nominal Voltage:	1.5 volts
Nominal IR:	150 to 300 milliohms (fresh)
Operating Temp:	-18°C to 55°C (0°F to 130°F)
Typical Weight:	23.0 grams (0.8 oz.)
Typical Volume:	8.1 cubic centimeters (0.5 cubic inch)
Jacket:	Plastic Label
Shelf Life:	10 years at 21°C
Terminal:	Flat Contact

10-AC02050-2024-V1



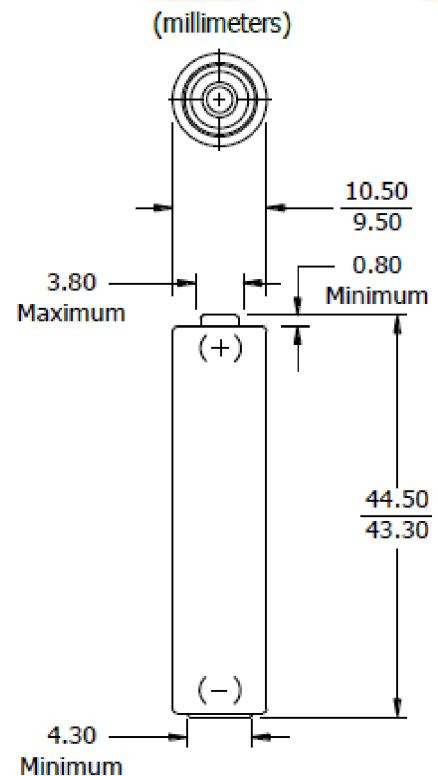
**Acel part number (AC02051)**

Industrial AAA alkaline battery  
pk=10

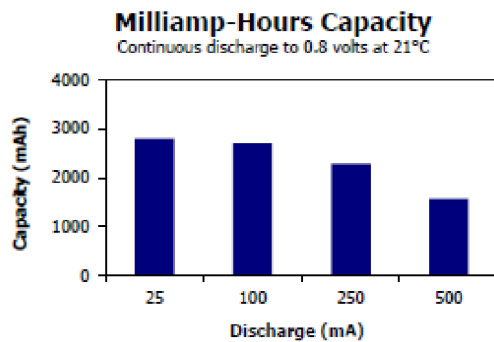
**Features and benefits**

### Technical Specification

Attribute	Value
Classification:	Alkaline
Chemical System:	Zinc-Manganese Dioxide (Zn/MnO <sub>2</sub> )
Designation:	IEC-LR03
Nominal Voltage:	1.5 volts
Nominal IR:	150 to 300 milliohms (fresh)*
Operating Temp:	-18°C to 55°C
Typical Weight:	11.5 grams
Typical Volume:	3.8 cubic centimeters
Jacket:	Plastic Label
Shelf Life:	10 years at 21°C (80% of initial capacity)
Terminal:	Flat Contact



**10-AC02051-2024-V1**

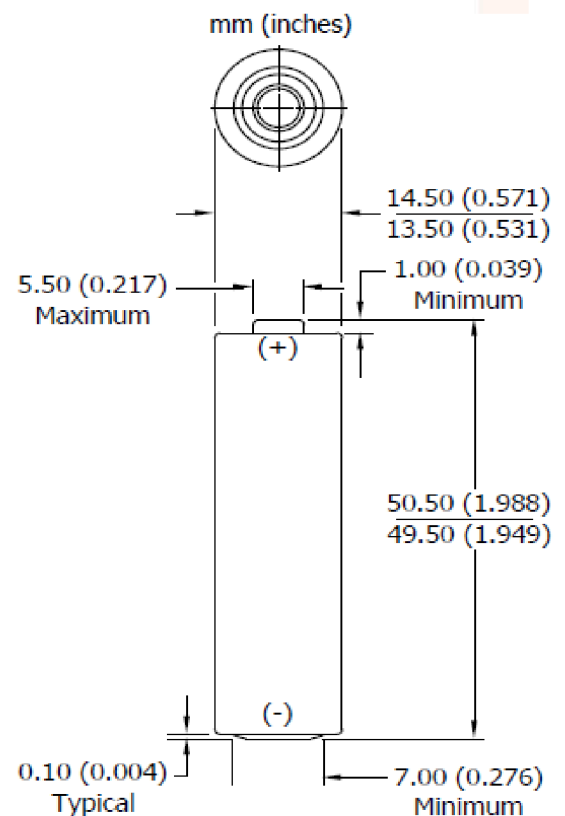


**Acel part number (AC02060)**

Max Plus AA alkaline battery

pk=20

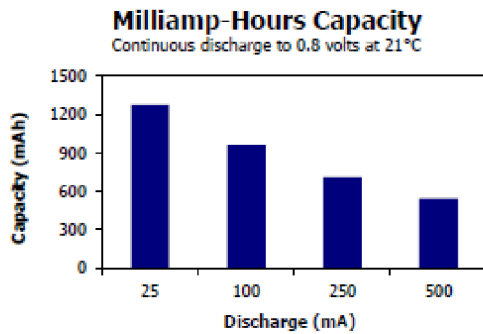
**Features and benefits**



### Technical Specification

Attribute	Value
Classification:	Alkaline
Chemical System:	Zinc-Manganese Dioxide (Zn/MnO <sub>2</sub> )
Designation:	ANSI-15A, IEC-LR6
Nominal Voltage:	1.5 volts
Nominal IR:	150 to 300 milliohms (fresh)
Operating Temp:	-18°C to 55°C (0°F to 130°F)
Typical Weight:	23.0 grams (0.8 oz.)
Typical Volume:	8.1 cubic centimeters (0.5 cubic inch)
Jacket:	Plastic Label
Shelf Life:	12 years at 21°C
Terminal:	Flat Contact

10-AC02060-2024-V1



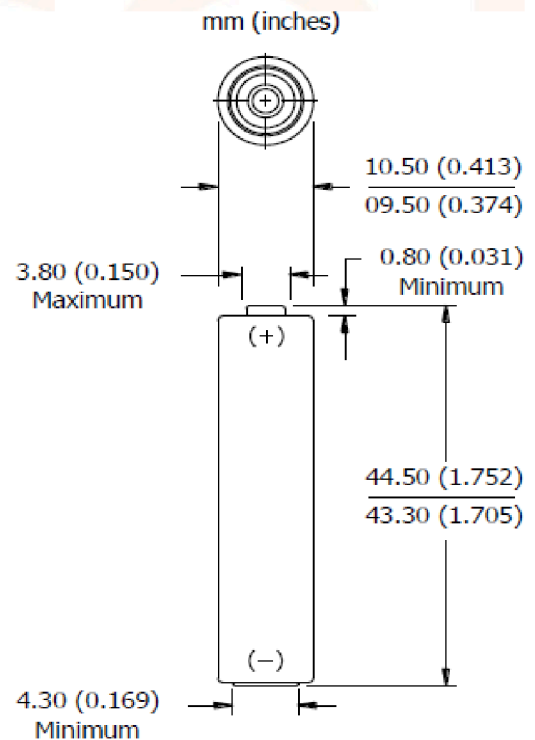
**Acel part number (AC02061)**

Max Plus AAA alkaline battery  
pk=20

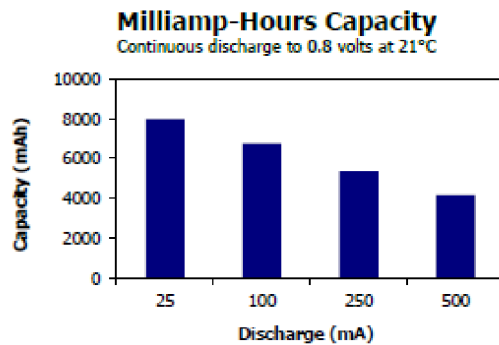
**Features and benefits**

### Technical Specification

Attribute	Value
Classification:	Alkaline
Chemical System:	Zinc-Manganese Dioxide (Zn/MnO <sub>2</sub> )
Designation:	ANSI-24A, IEC-LR03
Nominal Voltage:	1.5 volts
Nominal IR:	150 to 300 milliohms (fresh)
Operating Temp:	-18°C to 55°C (0°F to 130°F)
Typical Weight:	11.5 grams (0.4 oz.)
Typical Volume:	3.8 cubic centimeters (0.2 cubic inch)
Jacket:	Plastic Label
Shelf Life:	10 years at 21°C
Terminal:	Flat Contact



**10-AC02061-2024-V1**

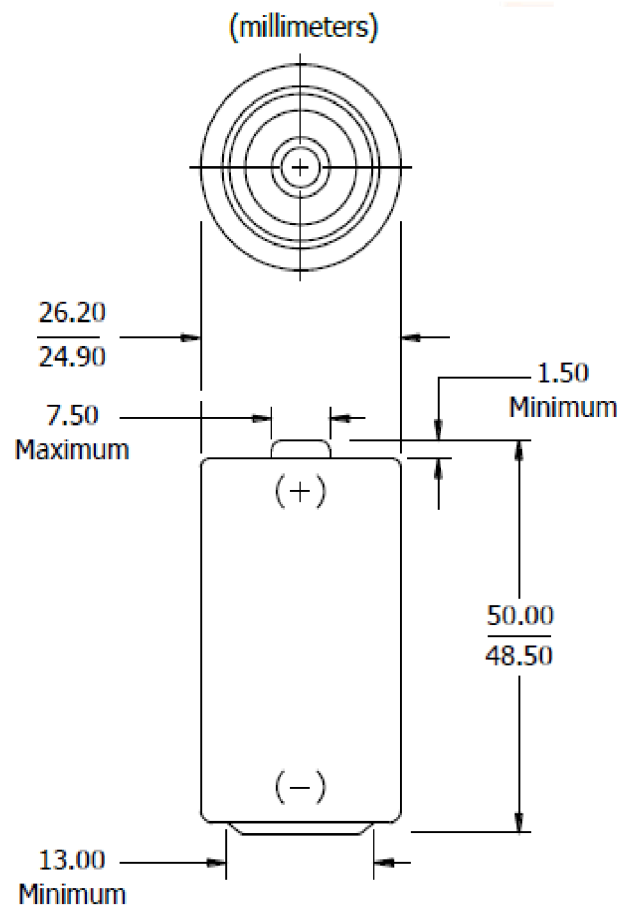


**Acel part number (AC02062)**

**Max Plus C alkaline battery**

**pk=20**

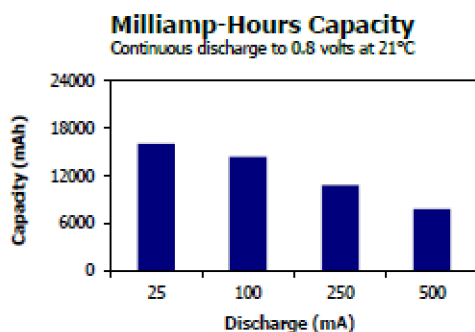
**Features and benefits**



### Technical Specification

Attribute	Value
Classification:	Alkaline
Chemical System:	Zinc-Manganese Dioxide (Zn/MnO <sub>2</sub> )
Designation:	IEC-LR14
Nominal Voltage:	1.5 volts
Nominal IR:	150 to 300 milliohms (fresh)
Operating Temp:	-18°C to 55°C
Typical Weight:	66.0 grams
Typical Volume:	27.0 cubic centimeters
Jacket:	Plastic Label
Shelf Life:	10 years at 21°C
Terminal:	Flat Contact

**10-AC02062-2024-V1**

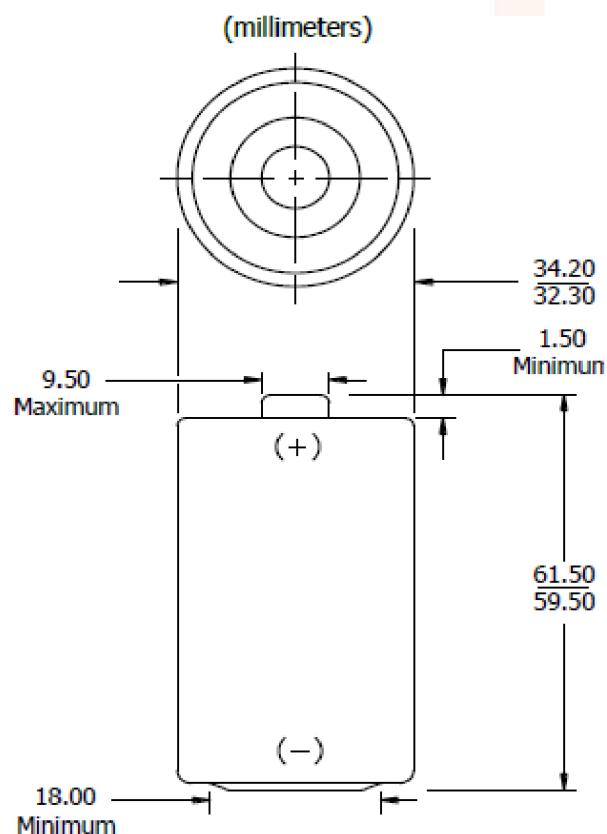


**Acel part number (AC02063)**

**Max Plus D alkaline battery**

**pk=20**

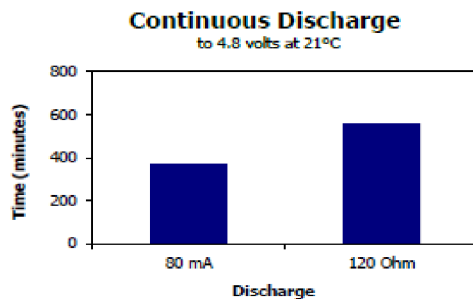
**Features and benefits**



### Technical Specification

Attribute	Value
Classification:	Alkaline
Chemical System:	Zinc-Manganese Dioxide (Zn/MnO <sub>2</sub> )
Designation:	IEC-LR20
Nominal Voltage:	1.5 volts
Nominal IR:	150 to 300 milliohms (fresh)
Operating Temp:	-18°C to 55°C
Typical Weight:	144.0 grams
Typical Volume:	56.0 cubic centimeters
Jacket:	Plastic Label
Shelf Life:	10 years at 21°C
Terminal:	Flat Contact

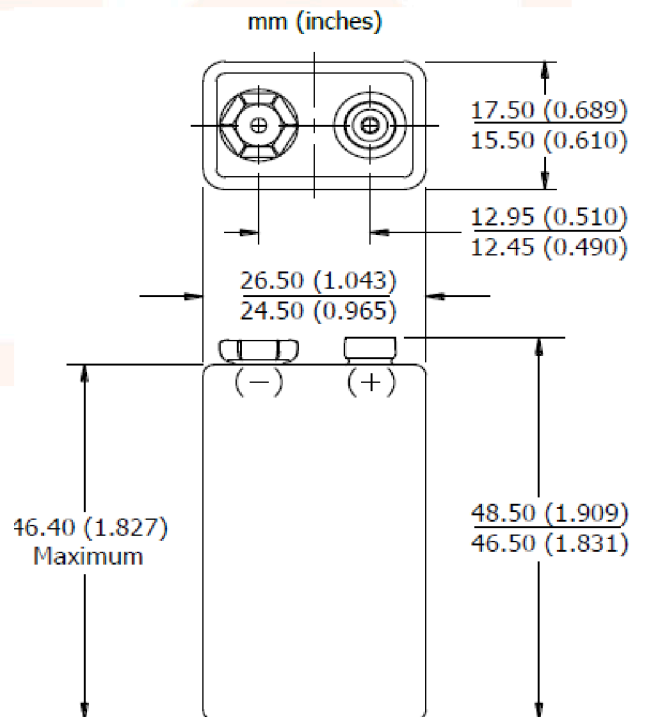
**10-AC02063-2024-V1**



**Acel part number (AC02064)**

Max Plus 9V alkaline battery  
pk=20

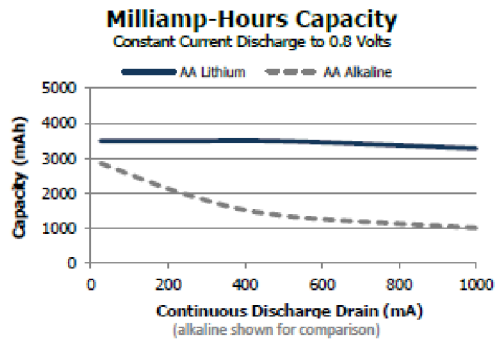
**Features and benefits**



### Technical Specification

Attribute	Value
Classification:	Alkaline
Chemical System:	Zinc-Manganese Dioxide (Zn/MnO <sub>2</sub> )
Designation:	IEC-6LR61 ANSI-1604A
Nominal Voltage:	9.0 volts
Operating Temp:	-18°C to 55°C
Typical Weight:	45.0 grams (1.58 oz.)
Typical Volume:	21.1 cubic centimeters
Jacket:	Plastic
Shelf Life:	5 years at 21°C
Terminal:	Miniature Snap

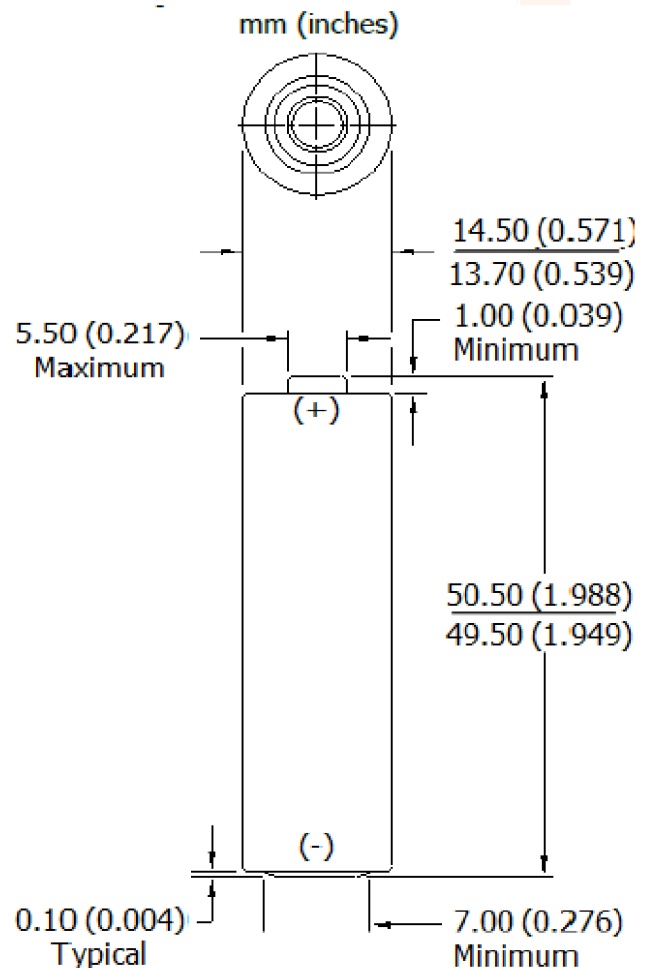
**10-AC02064-2024-V1**



**Acel part number (AC02070)**

**Ult Lith AA Lithium battery**

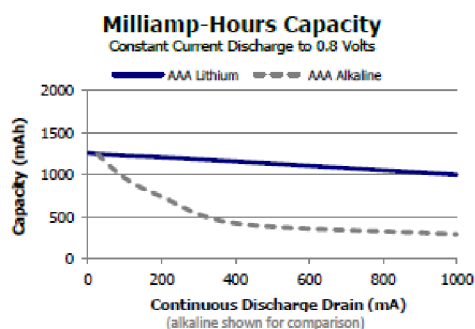
**Features and benefits**



### Technical Specification

Attribute	Value
Classification:	"Cylindrical Primary Lithium"
Chemical System:	Lithium/Iron Disulfide (Li/FeS <sub>2</sub> )
Designation:	ANSI 15-LF, IEC-FR14505 (FR6)
Nominal Voltage:	1.5 Volts
Sizing Compatibility	
Storage Temp:	-40°C to 60°C (-40°F to 140°F)
Operating Temp:	-40°C to 60°C (-40°F to 140°F)*
Typical Weight:	15 grams (0.5 oz.)
Typical Volume:	8.0 cubic centimeters (0.49 cubic inch)
Max Discharge:	2.5 amps continuous
(single battery only)	4.0 amps pulse (2 sec on / 8 sec off)
Lithium Content:	Less than 1 gram
Typical IR:	120 to 240 milliohms (depending on method)
Shelf Life:	25 years at 21°C

**10-AC02070-2024-V1**



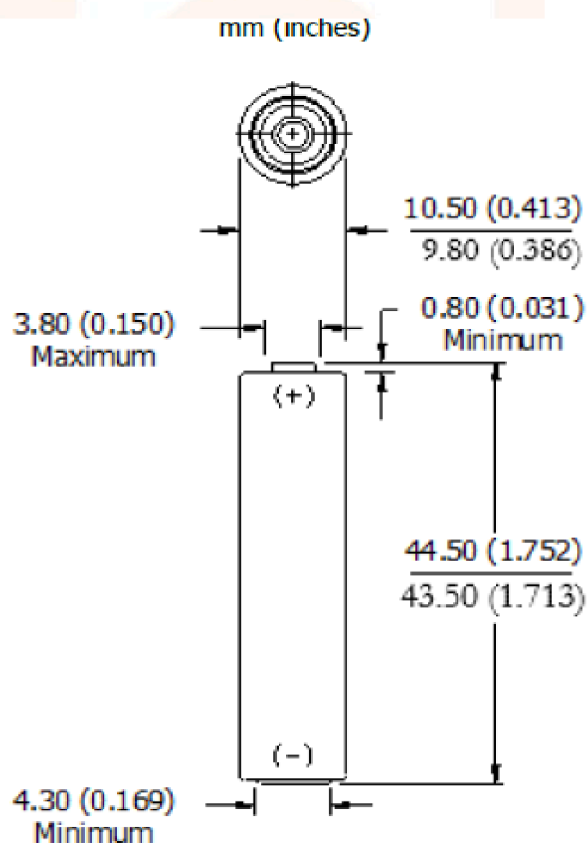
**Acel part number (AC02071)**

**Ult Lith AAA Lithium battery**

**Features and benefits**

### Technical Specification

Attribute	Value
Classification:	"Cylindrical Lithium"
Chemical System:	Lithium/Iron Disulfide (Li/FeS <sub>2</sub> )
Designation:	ANSI 24-LF, IEC-FR03
Nominal Voltage:	1.5 Volts
Compatible With:	
Storage Temp:	-40°C to 60°C (-40°F to 140°F)
Operating Temp:	-40°C to 60°C (-40°F to 140°F)*
Typical Weight:	7.6 grams (0.3 oz.)
Typical Volume:	3.8 cubic centimeters (0.2 cubic inch)
Max Discharge:	1.5 Amps Continuous (single battery only) 2.0 Amps Pulse (2 sec on / 8 sec off)
Max Rev Current:	2 uA
Lithium Content:	Less than 1 gram
Typical IR:	140 to 180 milliohms (depending on method)
Shelf Life:	25 years at 21°C



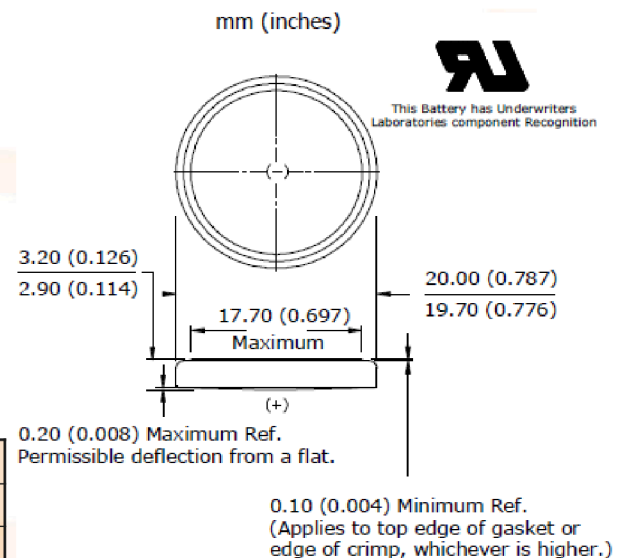
**10-AC02071-2024-V1**



**Acel part number (AC02065)**

**CR2032 lithium coin battery  
pack of 12**

**Features and benefits**



### Technical Specification

Attribute	Value
Classification:	"Lithium Coin"
Chemical System:	Lithium / Manganese Dioxide (Li/MnO <sub>2</sub> )
Designation:	ANSI / NEDA-5004LC, IEC-CR2032
Nominal Voltage:	3.0 Volts
Typical Capacity:	240 mAh (to 2.0 volts) (Rated at 15K ohms at 21°C)
Typical Weight:	3.0 grams (0.10 oz.)
Typical Volume:	1.0 cubic centimeters (0.06 cubic inch)
Max Rev Charge:	1 microampere
Energy Density:	198 milliwatt hr/g, 653 milliwatt hr/cc
Typical Li Content:	0.109 grams (0.0038 oz.)
UL Listed:	MH12454
Shipping:	For complete details, please reference: Special Provision A45 of the International Air Transport Association Dangerous Goods Regulations

### Simulated Application test

Typical Performance at 21°C (70°F)

Schedule:	Typical Drains: at 2.9V (mA)	Load (ohms)	Cutoff 2.0V (hours)
Continuous	0.19	15,000	1,263

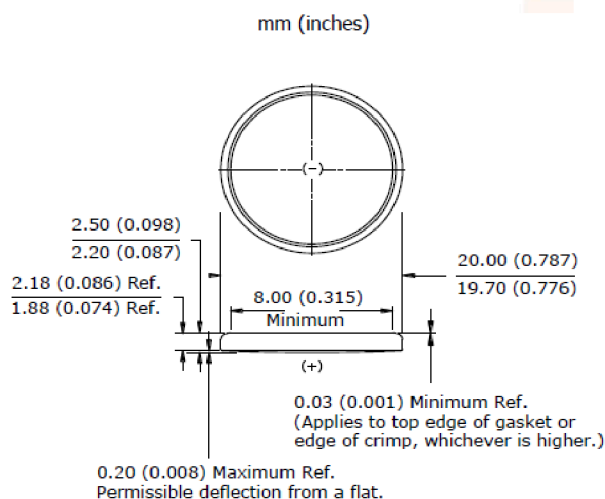
**10-AC02065-2024-V1**



**Acel part number (AC02066)**

**CR2025 lithium coin battery**  
**Pack of 12**

**Features and benefits**



### Technical Specification

Attribute	Value
Classification: "Lithium Coin"	
Chemical System: Lithium / Manganese Dioxide (Li/MnO <sub>2</sub> )	
Designation: ANSI / NEDA-5003LC, IEC-CR2025	
Nominal Voltage: 3.0 Volts	
Typical Capacity: 170 mAh (to 2.0 volts) (Rated at 15K ohms at 21°C)	
Typical Weight: 2.6 grams (0.08 oz.)	
Typical Volume: 0.8 cubic centimeters (0.05 cubic inch)	
Max Rev Charge: 1 microampere	
Energy Density: 176 milliwatt hr/g, 616 milliwatt hr/cc	
Typical Li Content: 0.078 grams (0.0028 oz.)	
Operating Temp: -30C to 60C	
Self Discharge: ~1% / year	

### Simulated Application test

Typical Performance at 21°C (70°F)

Schedule:	Typical Drains: at 2.9V (mA)	Load (ohms)	Cutoff 2.0V (hours)
Continuous	0.19	15,000	890

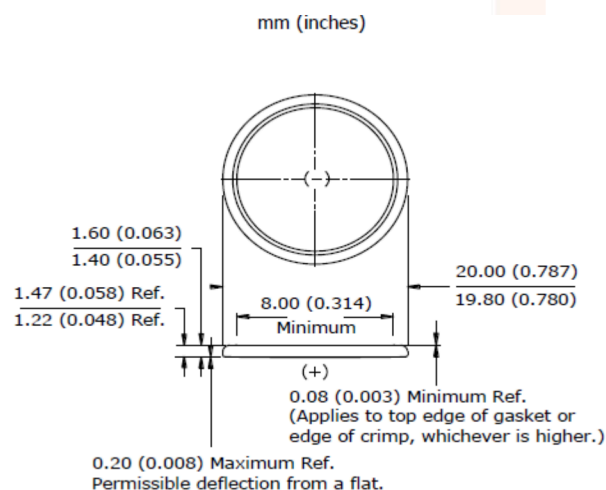
**10-AC02066-2024-V1**



**Acel part number (AC02067)**

**CR2016 lithium coin battery  
pack of 12**

**Features and benefits**



### Technical Specification

Attribute	Value
Classification:	"Lithium Coin"
Chemical System:	Lithium / Manganese Dioxide (Li/MnO <sub>2</sub> )
Designation:	ANSI / NEDA-5000LC, IEC-CR2016
Nominal Voltage:	3.0 Volts
Typical Capacity:	100 mAh (to 2.0 volts) (Rated at 30K ohms at 21°C)
Typical Weight:	1.9 grams (0.07 oz.)
Typical Volume:	0.5 cubic centimeters (0.03 cubic inch)
Max Rev Charge:	1 microampere
Energy Density:	122 milliwatt hr/g, 464 milliwatt hr/cc
Typical Li Content:	0.036 grams (0.0013 oz.)
Operating Temp:	-30C to 60C
Self Discharge:	~1% / year

### Simulated Application test

Typical Performance at 21°C (70°F)

Schedule:	Typical Drains: at 2.9V (mA)	Load (ohms)	Cutoff 2.0V (hours)
Continuous	0.1	30,000	1040

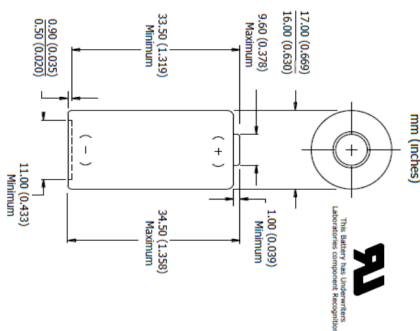
**10-AC02067-2024-V1**



**Acel part number (AC02068)**

**EN CR123 lithium battery pk=1**

**Features and benefits**



### Technical Specification

Attribute	Value
Classification:	"Lithium"
Chemical System:	Lithium / Manganese Dioxide (Li/MnO <sub>2</sub> )
Designation:	ANSI-5018LC, IEC-CR17345
Nominal Voltage:	3.0 Volts
Storage Temp:	-40°C to 60°C (-40°F to 140°F)
Operating Temp:	-40°C to 60°C (-40°F to 140°F)
Typical Capacity:	1500 mAh (to 2.0 volts) (Rated at 100 ohms at 21°C)
Typical Weight:	16.5 grams (0.58 oz.)
Typical Volume:	7.0 cubic centimeters (0.4 cubic inch)
Max Discharge:	1500 mA continuous (3500 mA pulse)
Max Rev Current:	2 uA
Typical Li Content:	0.55 grams (0.019 oz.)
UL Listed:	MH29980

**10-AC02068-2024-V1**

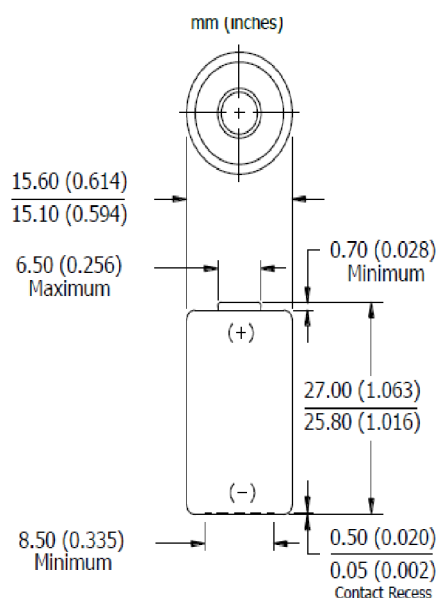


This battery contains a Positive Temperature Coefficient (PTC) safety device to limit current during short circuit conditions.

**Acel part number (AC02069)**

**CR2 lithium battery**

### Features and benefits



### Technical Specification

Attribute	Value
Classification: "Lithium"	
Chemical System: Lithium / Manganese Dioxide (Li/MnO <sub>2</sub> )	
Designation: ANSI-5046LC, IEC-CR15H270	
Nominal Voltage: 3.0 Volts	
Storage Temp: -40°C to 60°C (-40°F to 140°F)	
Operating Temp: -40°C to 60°C (-40°F to 140°F)	
Typical Capacity: 800 mAh (to 2.0 volts)	
(Rated at 100 ohms at 21°C)	
Typical Weight: 11.0 grams (0.4 oz.)	
Typical Volume: 5.2 cubic centimeters (0.3 cubic inch)	
Max Discharge: 1000 mA continuous (2500 mA pulse)	
Max Rev Current: 2 uA	
Typical Li Content: 0.28 grams (0.010 oz.)	

### Simulated Application Tests

Typical Use Performance

Type (time)	Drain (mA)	Load (ohms)	Cutoff Voltage		
			2.0V (21°C) (hours)	1.8V (21°C) (pulses)	1.55V (21°C) (pulses)
Capacity (continuous)	---	100	34	---	---
Photoflash (3 / 27 sec)	900	---	---	---	1140
Photoflash (3 / 7 sec)	1200	---	---	760	---
Photoflash (3 / 7 sec)	1800	---	---	400	---

**10-AC02069-2024-V1**

## Features and benefits

**10-ACXXX-2024-V1**