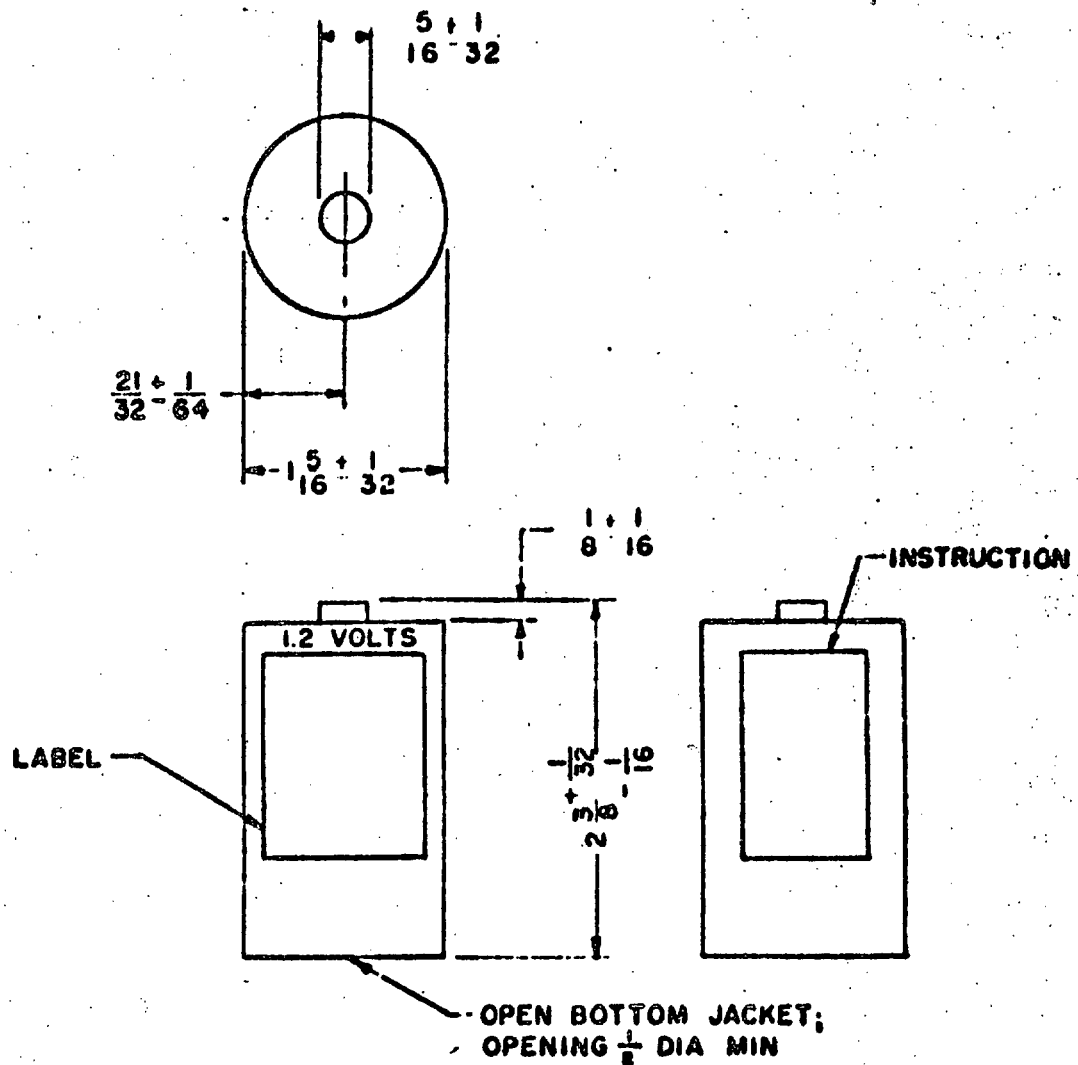


FED. SUP CLASS  
6140

NOTE.—When Government drawings, specifications, or other data are used for any purpose other than in connection with a definitely related Government procurement operation, the United States Government thereby incurs no responsibility, nor any obligation, and the fact that the Government may have furnished the data, or in any way supplied the said drawings, specifications, or other data, shall not be regarded as an endorsement or approval of the quality or value of the material or as an authority for its use, or as a guarantee of its performance in any particular service, or as a recommendation of its use, or as a permission to manufacture and use the material in any manner not provided for in the original drawings, specifications, or other data.



## NOTES:

1. ALL DIMENSIONS IN INCHES
2. For design feature purposes, this Standard takes precedence over procurement documents referenced herein.
3. Referenced documents shall be of the issue in effect on date of invitations for bids.

This standard has been approved by the Signal Corps  
Department of the Army, and is mandatory for use by  
all activities. (All other Army activities are required  
to use this standard where applicable.)

| PA SigC           | TITLE                           | MILITARY STANDARD |
|-------------------|---------------------------------|-------------------|
| Other Cost        | BATTERY, STORAGE BB-412 (1) / U | MIL 75031 (SigC)  |
| MIL-B-55130(SigC) | ALTERNATE, 1961                 | 1961 1961 2       |

FED. SUP. CLASS  
6140ELECTRICAL & PHYSICAL REQUIREMENTS

|                                    |  |
|------------------------------------|--|
| <b>Class</b>                       | <b>Sealed Cell</b>                         |
| <b>Voltages</b>                    |  |
| Nominal                            | 1.20 volts                                 |
| Final (Unless otherwise specified) | 1.00 volt                                  |
| Rated Capacity (C <sub>5</sub> )   | 3.50 A.H. (amp.hrs.)                       |
| Charge Rate (0.2C <sub>5</sub> )   | 0.70 amps                                  |
| <b>Discharge Rates</b>             |  |
| 0.2C <sub>5</sub>                  | 0.70 amps                                  |
| 3C <sub>5</sub>                    | 10.5 amps                                  |
| <b>Terminals</b>                   | <b>Button Type</b>                         |
| <b>Max. Weight</b>                 | 6.5oz                                      |
| <b>Container</b>                   | Nickel-Cadmium Cold Rolled Steel, or equal |
| <b>Number &amp; Type of Cells</b>  | 1 "D" Cell                                 |

PRODUCTION SAMPLING TESTS

| <u>Tests</u>   | <u>Test Para.</u> | <u>Min. Test Value</u> |
|--|-------------------|------------------------|
| Initial Full Capacity Discharge  | 4.9 .1.1          | 3.50 A.H.              |
| Full Capacity Discharge  | 4.9 .1            | 3.50 A.H.              |
| Low Temperature Discharge  | 4.9 .2            |                        |
| Test I   | 4.9 .2.1          | 3.15 A.H.              |
| Test II  | 4.9 .2.2          | 1.75 A.H.              |
| High Rate Discharge  | 4.9 .4            |                        |
| 5 second voltage   |                   | 1.15 volts             |
| Minutes to 1.0 volt  |                   | 15 Minutes             |
| * Intermittent Discharge   | 4.9 .3            | 1100 Minutes           |
| Overcharge Test  | 4.14              | 3.50 A.H.              |
| Cycle Life Test - Test I   | 4.12.1            | 400 cycles             |
| * Discharge through 6.67 ohms for 4 minutes every 1/2 hour, 10 hours per day, 5 days per week to a cut-off voltage of 0.93 volt. |                   |                        |
| <b>Retention of Charge</b>   |                   |                        |
| Test I   | 4.15.1            | 2.60 A. H.             |
| Test II  | 4.15.2            | 1.20 A. H.             |

APPROVED 12 May 1961 REVISED

|   |  |                   |
|---|--|-------------------|
| P.A. Sig C.<br>Other Cost                       | TITLE<br>Battery, Storage, BB-412( )/U | MILITARY STANDARD |
|   |  | MS 75G31 (SigC)   |
| Predecessor Identification<br>MIL-B-55130(SigC) | SUPERSEDES                             | SHEET 2 OF        |