

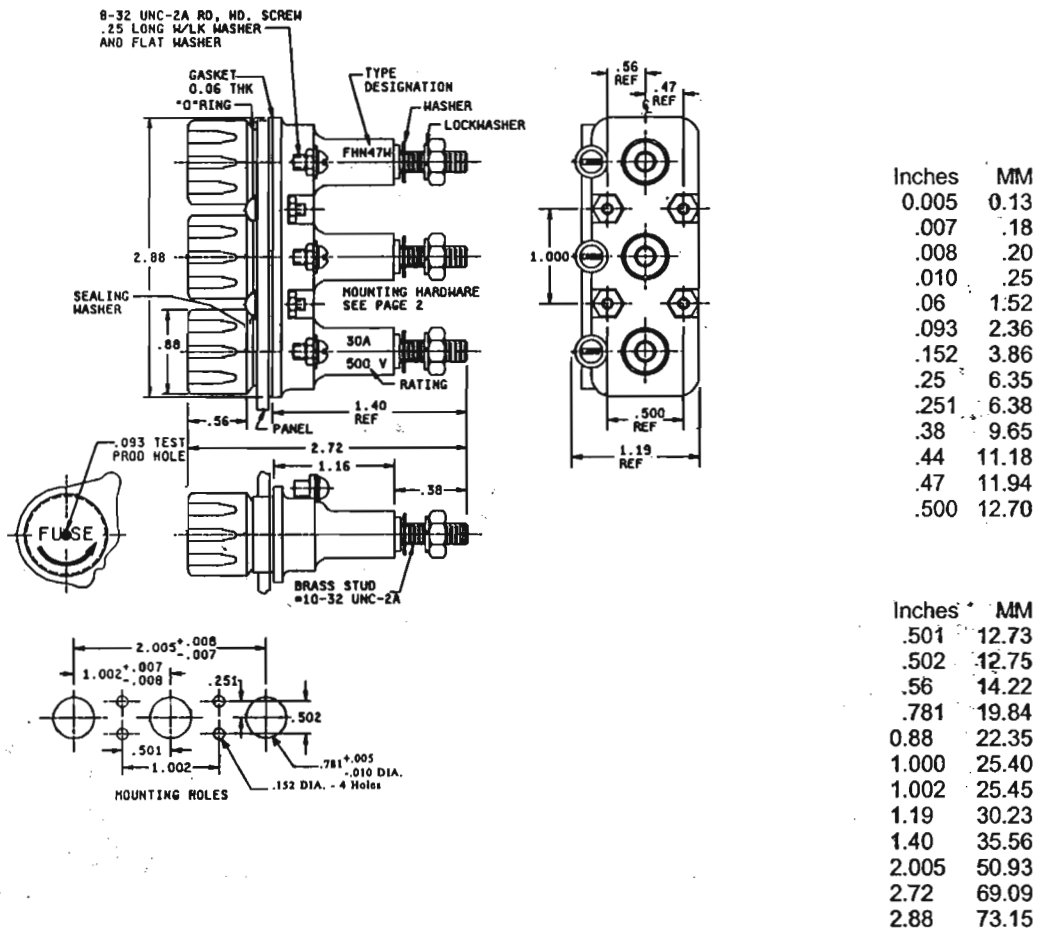
INCH-POUND
MIL-PRF-19207/31D
11 December 2001
SUPERSEDING
MIL-PRF-19207/31C
23 August 1991

PERFORMANCE SPECIFICATION SHEET

FUSEHOLDERS, EXTRACTOR POST TYPE,
NONINDICATING, TYPES FHN47W AND FHN47WB

This specification is approved for use by all departments and agencies of the Department of Defense.

The requirements for acquiring the product described herein shall consist of this specification and MIL-PRF-19207.



See notes on other page.

FIGURE 1. Type FHN47W and type FHN47WB fuseholder.

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REQUIREMENTS:

Interface and physical dimensions: See figure 1.

Cap and body molding material: Cap and body molding materials shall be selected to enable the fuseholder to meet the performance requirements of this specification. Additional information and guidance on cap and body molding material are specified in the notes.

Fuse accommodation:

Ferrule type:

Size: 0.406 inch (10.31 mm) diameter, 1.500 inches (38.10 mm) length.
Styles: MIL-PRF-15160, F07, F09, and F60.
(or equivalent size and styles)

Poles: Three.

Rating: 30 amperes maximum, 500 volts maximum.

Panel thickness: 0.125 inch (3.18 mm) maximum.

Nonindicating.

Terminals: Screw and threaded stud (see figure 1).

Enclosure: Watertight or watertight and body sealed (for submarine applications use FHN47WB).

Weight: 5.5 ounces maximum.

Gaskets and o-rings: Gaskets and o-rings shall be used that enable the fuseholder to meet the performance requirements of this specification. Additional information and guidance on gaskets and o-rings are specified in the notes.

Test fuses:

Temperature rise: F60C500V30A of MIL-PRF-15160/60.
Voltage drop: F60C500V30A of MIL-PRF-15160/60.
Short circuit: F60C500V30A of MIL-PRF-15160/60.

Mechanical shock: Method I of MIL-PRF-19207.

Terminal strength: 20 pounds.

Torque: Cap - 36 inch-pounds, terminal - 25 inch-pounds.

Salt spray (corrosion): Test condition B.

Dielectric:

Sea level: 2,000 volts.
Reduced pressure: 750 volts.

Mounting hardware:

Screw: 6-32UNC-2A, Round head with sealing washer.
Nut: 6-32UNC-2B Hex. A threaded metal insert may be used in lieu of nut.

Type designation: See table I.

TABLE I

Superseding type designation number	Superseded military part number
FHN47W	M19207/31-001
FHN47WB	M19207/31-002

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NOTES:

1. Dimensions are in inches.
2. Metric equivalents (to the nearest 0.01 mm) are given for general information only, and are based upon 1 inch = 25.4 mm.
3. Unless otherwise specified, tolerances are ± 0.02 (0.51 mm) for two place decimals and ± 0.005 (0.13 mm) for three-place decimals.
4. Cap thread shall be 9/16-27NEF-2 and provide for cap interchangeability.
5. Cap and body molding material: It is recommended that types MAI-60, GDI-30F or SDG-F of American Society for Testing and Materials (ASTM) D5948 be considered for meeting the cap and body molding material requirements of this specification.
6. Gaskets and O-rings: It is recommended that class 3 silicone rubber of A-A-59588 (Rubber, Silicone), be considered for use in meeting the gasket and o-ring material requirements of this specification.

Custodians:

Army - CR
Navy - SH
Air Force - 11
DLA - CC

Preparing activity:
DLA - CC

(Project 5920-0732-10)

Review activities:

Army - AR, AT, CR4, MI
Navy - AS, MC
Air Force - 70, 71