

MILITARY SPECIFICATION

LOUDSPEAKERS, PERMANENT MAGNET (ENCASED, 2-WATT,  
FUNGUS-, GUNBLAST-, AND IMMERSION-RESISTANT),  
GENERAL SPECIFICATION FOR

This amendment forms part of Military Specification MIL-L-12632D, dated 10 June 1974,  
and is approved by all Departments and Agencies of the Department of Defense.

PAGE 1

2. APPLICABLE DOCUMENTS: delete and substitute:

" 2. APPLICABLE DOCUMENTS

2.1 General. The documents listed in this section are specified in sections 3 and 4 of this specification. This section does not include documents cited in other sections of this specification or recommended for additional information or as examples. While every effort has been made to ensure the completeness of this list, document users are cautioned that they must meet all specified requirements documents cited in sections 3 and 4 of this specification, whether or not they are listed.

2.2 Government documents.

2.2.1 Specifications, standards, and handbooks. The following specifications, standards, and handbooks form a part of this document to the extent specified herein. Unless otherwise specified, the issues of these documents are those listed in the issue of the Department of Defense Index of Specifications and Standards (DoDISS) and supplement thereto, cited in the solicitation (see 6.2).

SPECIFICATIONS

DEPARTMENT OF DEFENSE

MIL-T-27	-	TRANSFORMERS AND INDUCTORS (AUDIO, POWER, AND HIGH-POWER PULSE), GENERAL SPECIFICATION FOR.
MIL-T-152	-	TREATMENT, MOISTURE- AND FUNGUS- RESISTANT, OF COMMUNICATIONS, ELECTRONIC, AND ASSOCIATED ELECTRICAL EQUIPMENT.
MIL-S-3786	-	SWITCHES, ROTARY (CIRCUIT SELECTOR, LOW CURRENT CAPACITY), GENERAL SPECIFICATION FOR.
MIL-C-3885	-	CABLE ASSEMBLIES AND CORD ASSEMBLIES, ELECTRICAL.
MIL-L-3891	-	LUMINESCENT MATERIAL AND EQUIPMENT, (NONRADIOACTIVE).
MIL-L-12606	-	LOUDSPEAKER, PERMANENT MAGNET (UNENCASED, 3-INCH AND 4-INCH DIAMETER CONE, 2-WATT; FUNGUS-, GUNBLAST-, AND IMMERSION-RESISTANT), TYPE LS-445/U, M12606-01, AND M12606-02.
MIL-L-12632/1	-	LOUDSPEAKER, PERMANENT MAGNET (ENCASED, 2-WATT, FUNGUS-, GUNBLAST-, AND IMMERSION-RESISTANT), TYPE LS-590( )/U.
MIL-L-12632/2	-	LOUDSPEAKER, PERMANENT MAGNET (ENCASED, 2-WATT, FUNGUS-, GUNBLAST-, AND IMMERSION-RESISTANT), TYPE LS-166/U.
MIL-L-12632/4	-	LOUDSPEAKER, PERMANENT MAGNET (ENCASED, 2-WATT, FUNGUS-, GUNBLAST-, AND IMMERSION-RESISTANT), TYPE LS-454/U.
MIL-F-14072	-	FINISHES FOR GROUND BASED ELECTRONIC EQUIPMENT.

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STANDARDS

FEDERAL

- FED-STD-H28 - SCREW-THREADS STANDARDS FOR FEDERAL SERVICES.
- FED-STD-595 - COLORS

DEPARTMENT OF DEFENSE

- MIL-STD-130 - IDENTIFICATION MARKING OF U. S. MILITARY PROPERTY.
- MIL-STD-202 - TEST METHODS FOR ELECTRONIC AND ELECTRICAL COMPONENT PARTS.
- MS35206 - SCREW, MACHINE-PAN HEAD, CROSS-RECESSED, CARBON STEEL, CADMIUM PLATED, UNF-2A.
- MS35333 - WASHER, LOCK, FLAT-INTERNAL TOOTH.
- MS35338 - WASHER, LOCK-SPRING, HELICAL, REGULAR (MEDIUM) SERIES.
- MS35426 - NUT, PLAIN, WING, UNF-2B.
- MS91524 - KNOB, CONTROL, SHORT BAR, METAL AND PLASTIC.

(Unless otherwise indicated, copies of the above specifications, standards, and handbooks are available from the Defense Automated Printing Service, Building 4D (DPM-DODSSP), 700 Robbins Avenue, Philadelphia, PA 19111-5094).

2.3 Non-Government publications. The following documents form a part of this document to the extent specified herein. Unless otherwise specified, the issues of the documents which are DoD adopted are those listed in the issue of the DoDISS cited in the solicitation. Unless otherwise specified, the issues of documents not listed in the DoDISS are the issues of the documents cited in the solicitation (see 6.2).

STANDARDS

AMERICAN NATIONAL STANDARDS INSTITUTE

- ANSI/NCSL Z540-1 - General Requirements for Calibration Laboratories and Measuring and Test Equipment.

INTERNATIONAL ORGANIZATION for STANDARDS

- ISO 10012-1 - Quality Assurance Requirements For Measuring Equipment Part 1: Metrological Confirmation System for Measuring Equipment.

(Application for copies of the above documents should be addressed to the American National Standards Institute (ANSI), 11 West 42<sup>nd</sup> Street, New York, NY 10036).

AMERICAN SOCIETY FOR TESTING AND MATERIALS

- A27/A27M - Standard Specification for - Steel Castings, Carbon, for General Application.
- A108 - Standard Specification for - Steel Bars, Cold-Finished, Standard Quality.
- B85 - Standard Specification for - Aluminum-Alloy Die Casting.

(Application for copies of the above documents should be addressed to the AMERICAN SOCIETY FOR TESTING AND MATERIAL (ASTM), 100 Barr Harbor Dr., West Conshohocken, PA 19428).

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JOINT INDUSTRY STANDARDS

- J-STD-006 - Requirements for Electronic Grade Solder Alloys and Fluxed and Non-Fluxed Solid Solders for Electronic Soldering Applications.

(DoD activities may obtain copies of these standards from the Defense Automated Printing Service, Building 4D (DPM-DODSSP), 700 Robbins Avenue, Philadelphia, PA 19111-5094. Private sector and other Government Agencies may purchase copies from the Institute for Interconnecting and Packaging Electronic Circuit (IPC, Inc.), 2215 Sanders Road, Suite 200 South, Northbrook, IL 60062.)

SOCIETY OF AUTOMOTIVE ENGINEERS

- AMS 3202 - AEROSPACE MATERIAL SPECIFICATION - NITRILE (NBR) RUBBER Dry Heat Resistant 55 - 65.

(Application for copies of the above document should be addressed to the Society of Automotive Engineers (SAE), 400 Commonwealth Drive, Warrendale, PA 15096-0001).

2.4 Order of precedence. In the event of a conflict between the text of this document and the references cited herein except for related associated specifications, specification sheets, or MS sheets, the text of this document takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained."

PAGE 3

3.3.1: Delete: "...alloy 13 of QQ-A-591" and substitute the following: "...alloy 413 of ASTM B85."

3.3.2: Delete: "QQ-S-571" and substitute: "J-STD-006"

3.4.4: Delete and substitute the following:

"3.4.4 Audio transformers. Audio transformers shall be grade 4, class R, family 21, in accordance with MIL-T-27 (see 3.1)."

3.4.6: After: "...MS91524," add the following: "part number MS91524-9AP3TOX,"

3.4.7: Delete: "...Handbook H28" and substitute: "FED-STD-28"

PAGE 4

Add as a new paragraph:

"3.8 Recycled, recovered, or environmentally preferable materials. Recycled, recovered, or environmentally preferable materials should be used to the maximum extent possible provided that the material meets or exceeds the operational and maintenance requirements, and promotes economically advantageous life cycle costs."

3.8 Workmanship.: Renumber to "3.9"

4: Title: Delete "QUALITY ASSURANCE PROVISIONS" and substitute; "VERIFICATION"

4.1: Delete.

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4.1.1: Delete: "...MIL-C-45662" and substitute: "ISO-10012-1 and ANSI/NCSL Z540.1"

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4.6.1.2.1: Delete and substitute:

"4.6.1.2.1 Sampling plan. Accept on zero, for general inspection level II, as specified in table III-1. The classification of defects for the visual and mechanical examinations are specified in table III." (Classification of major and minor defects for visual and mechanical examination is shown in table VI.)

TABLE III:

Delete: "4<sup>th</sup> and 5<sup>th</sup> columns" related to "AQL (percent defective)".

Add:

"TABLE III-1. Sampling plan."

LOT SIZE	<u>2/</u> SAMPLE SIZE MAJOR	<u>2/</u> SAMPLE SIZE MINOR
2 to 13	<u>1/</u> 13	3
14 to 25	13	3
26 to 50	13	5
51 to 90	13	6
91 to 150	13	7
151 to 280	20	10
281 to 500	29	11
501 to 1200	34	15
1201 to 3200	42	18

1/ Indicates entire lot must be inspected.

2/ Refer to TABLE VI for definitions."

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4.6.2: Delete.

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5: Delete and substitute:

"5. PACKAGING

5.1 Packaging. For acquisition purposes, the packaging requirements shall be as specified in the contract or order (see 6.2). When actual packaging of materiel is to be performed by DoD personnel, these personnel need to contact the responsible packaging activity to ascertain requisite packaging requirements. Packaging requirements are maintained by the Inventory Control Point's packaging activity within the Military Department or Defense Agency, or within the Military Department's System Command. Packaging data retrieval is available from the managing Military Department's or Defense Agency's automated packaging files, CD-ROM products, or by contacting the responsible packaging activity."

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6.1: Delete: "Ordering data." and substitute: "Acquisition requirements."  
Delete: In sub-paragraph (c) " and 5.2"  
Delete: sub-paragraph (d)

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Figure 1B: NOTE 4: Delete: "QQ-A-591" and substitute: "ASTM B85"

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Figure 1C: NOTE 4: Delete: "QQ-S-637" and substitute: "ASTM A108"

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Figure 1D: NOTE 4: Delete: "QQ-S-681" and substitute: "ASTM A27"

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Figure 1E: NOTE 4: After the word "to" delete: "...grade R615 of MIL-STD-417" and substitute: "SAE AMS3202"

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Figure 1F: NOTE 4: Delete: "QQ-S-633" and substitute: "ASTM A108"

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Figure 1E: NOTE 4: After the word "to" delete: "...grade R620 of MIL-STD-417" and substitute: "SAE AMS3202"

Custodians:  
Army - CR  
Navy - EC  
Air Force - 85

Preparing activity:  
DLA - CC  
  
(Project 5965-0277)

Review activities:  
Army - CR4  
Navy - CG, MC, OS  
Air Force - 13, 99