



DEFENSE LOGISTICS AGENCY
WEAPONS SUPPORT (COLUMBUS)
P.O. BOX 3990
COLUMBUS, OHIO 43218-3990

August 10, 2026

MEMORANDUM FOR MILITARY/INDUSTRY DISTRIBUTION.

SUBJECT: PROPOSED AMMENDMENT OF MS91189E Project #: 5950-2026-035.

The initial draft of this document is now available for viewing and downloading from the DLA Weapons Support (Columbus) -VA website:

<https://landandmaritimeapps.dla.mil/programs/milspec/default.aspx>

This document is being amended. Based on internal engineering assessment, there is a need to update and maintain the document. Recent updates to MIL-STD-961 and a proposed omission in Table II -Electronic characteristics, drove the amendment.

Comments are required at this office within 30 days from the date of this letter. Comments received after this period will be retained for consideration during the next coordination cycle of this document. Comments submitted by military departments must be clearly identified as either **“Essential”** or **“Suggested.”** Essential comments must include justification and supporting data if applicable. Military review activities should forward their comments through their respective custodians, allowing sufficient time for consolidation of the department’s response. A lack of response to this draft is interpreted as concurrence.

If this document is of interest to you, please send your comments to : Mrs. Ami Banks, phone number: 614-693-0376, e-mail: ami.banks@dla.mil, or mail to: DLA Weapons Support (Columbus), ATTN: VAT , P.O. Box 3990, Columbus, OH 43218-3990.

Sincerely,

/SIGNED/

Jim Eschmeyer
Branch Chief,
Electronic Components Branch

NOTE: This initial draft, dated 11 Aug 2026 prepared by DLA-CC, has not been approved and is subject to modification. DO NOT USE PRIOR TO APPROVAL. (Project 5950-2026-035)

INCH-POUND

MS91189E
W/AMENDMENT 1
DATED
SUPERSEDING
MS91189E
7 September 2007

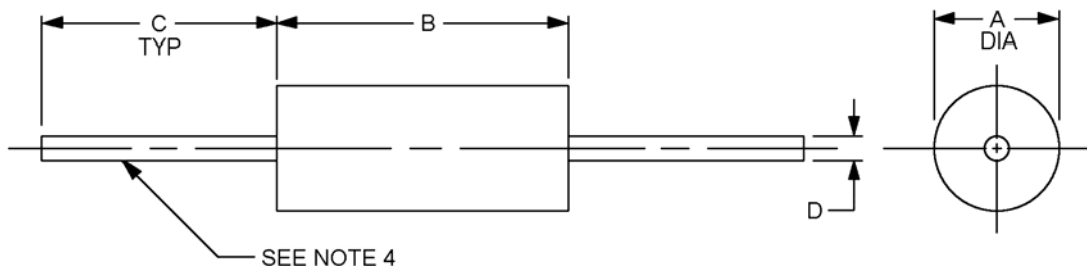
PERFORMANCE SPECIFICATION SHEET

COILS, RADIO FREQUENCY, MOLDED, FIXED
SUBMINIATURE (PHENOLIC CORE),
TYPES LT4K002 TO LT4K016, INCLUSIVE

Inactive for new design.

This specification is approved for use by all
Departments and Agencies of the Department of Defense.

The requirements for acquiring the products described
herein shall consist of this specification and [MIL-PRF-15305](#).



LTR	Dimensions in inches with metric equivalents (mm) in parentheses	
	Minimum	Maximum
A	.250 (6.35)	.313 (7.95)
B	.875 (22.23)	1.000 (25.40)
C	1.250 (31.75)	1.625 (41.28)
D	.026 (0.66)	.030 (0.76)

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. These coils are intended to be supported by their bodies.
4. Solderable/weldable lead wire, number 21 AWG.

FIGURE 1. Dimensions and configuration.

REQUIREMENTS:

Style: LT4

Grade: 1
Class: B

Design, construction, and physical dimensions: See [figure 1](#).

Weight: 3.9 grams, maximum.

Operating temperature range: -55°C to +125°C.

Ambient temperature: +90°C ±5°C.

Temperature rise: 35 °C, maximum.

Terminal pull: 5 pounds, minimum.

Altitude: 70,000 feet.

Shock (specified pulse): [MIL-STD-202-213](#), test condition I, is applicable.

Dielectric withstanding voltage (sea level): [MIL-STD-202-301](#), test voltage 1000 V rms for a minimum of 60 seconds.

Barometric pressure (reduced): [MIL-STD-202-105](#), test condition C, test voltage of 200 V rms for a minimum of 60 seconds.

Electrical characteristics: See [tables I](#) and [II](#).

Inductance: See [table I](#).

Q values: See [table I](#).

Self-resonant frequency (SRF): See [table I](#).

DC resistance (DCR): See [table I](#).

Part or Identifying Number (PIN): MS91189 - (dash number from table I).

MS91189E
w/AMENDMENT 1
DRAFT dated 8/11/2026

TABLE 1. Electrical characteristics (initial).

Dash Number MS91189 1/	Type designation	Inductance (μ H) $\pm 10\%$	Q (min)	Test Frequency (MHz)	SRF Minimum (MHz)	DC resistance Max. (ohms)	Rated DC current (mA)
-14	LT4K002	1.2	60	7.9	170	0.075	2,400
-15	LT4K003	1.5	60	7.9	160	0.090	2,150
-16	LT4K004	1.8	60	7.9	140	0.135	1,750
-17	LT4K005	2.2	60	7.9	125	0.160	1,600
-18	LT4K006	2.7	60	7.9	115	0.220	1,350
-19	LT4K007	3.3	60	7.9	100	0.305	1,150
-20	LT4K008	3.9	60	7.9	95	0.450	955
-21	LT4K009	4.7	60	7.9	90	0.560	860
-22	LT4K010	5.6	60	7.9	80	0.745	745
-23	LT4K011	6.8	60	7.9	75	1.05	635
-24	LT4K012	8.2	60	7.9	68	1.40	550
-25	LT4K013	10.0	60	7.9	60	1.90	460
-26	LT4K014	12.0	40	2.5	53	2.65	395
-27	LT4K015	15.0	40	2.5	50	3.25	355
-28	LT4K016	18.0	40	2.5	45	4.15	315

1/ Former MS part numbers MS91189-29 thru MS91189-38 have been superseded by [MS75103-1](#) thru [MS75103-10](#), respectively.

TABLE II. Electrical characteristics (final).

Inspection group	Allowable variation from Initial measurement		Allowable percent from specified minimum value in electrical characteristics (initial) table	
	Inductance (percent)	DC resistance	Self-resonant frequency	Q
Qualification inspection				
Group II	± 2	---	---	-10
Group III	± 5	$\pm(3\% + .001 \text{ ohm})$	-8	-10
Group IV	± 5	$\pm(2\% + .001 \text{ ohm})$	-10	-15
~~Conformance inspection group C~~				
~~Subgroup I~~	~~± 2~~	~~---~~	~~---~~	~~-10~~
~~Subgroup II~~	~~± 5~~	~~$\pm(2\% + .001 \text{ ohm})$~~	~~-10~~	~~-15~~
~~Subgroup III~~	~~± 5~~	~~$\pm(3\% + .001 \text{ ohm})$~~	~~-8~~	~~-10~~

Application notes:

- The polarizing voltage during the moisture resistance tests is applied with the positive lead connected to the coil terminals tied together, and the negative lead connected to the metal strap.

Amendment notations. The margins of this specification are marked with vertical line to indicate modifications generated by this amendment. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations.

Referenced documents. [MIL-PRF-15305](#), [MIL-STD-202](#)

Custodians:

Army – CR
Navy - EC
Air Force - 11
DLA – CC

Preparing activity:

DLA – CC

Project [5950-2026-035](#)

Review activities:

Army – AR, MI
Navy – AS, MC, OS
Air Force – 19, 99

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at <https://assist.daps.dla.mil>.