

RATINGS		FED. SUP CLASS 5950	
Style	LT4	<p>AWG # 22 .025 ± .002 DIA (.69-.58)</p> <p>TINNED, SOLID COPPER WIRE</p> <p>ALL DIMENSIONS IN INCHES</p> <p>Metric equivalents in parentheses are shown for general information only and are based upon 1 inch = 25.4 mm</p>	
Grade	1		
Class	B		
Maximum operating temperature	125°C		
Temperature rise	35°C		
Ambient temperature	90°C		
Terminal pull	5 pounds		
Dielectric withstanding voltage (sea level)	700 volts rms		
Altitude (Barometric pressure)	70,000 feet		
Coupling	3 percent max		
Test voltage at 70,000 feet	180 volts rms		
Operating temperature	-55 to 125°C		
Weight	.750 grams or less		

ELECTRICAL CHARACTERISTICS (INITIAL)

Dash No. 1/	Type designation	Inductance ±10%	Q min	Test frequency	Self-resonant frequency, min	DC resistance maximum	Rated DC current 2/	Incremental current
		uh		mc	mc	Ohms	mA	mA
- 1	LT4K242	0.10	50	25	250	.025	2900	2900
- 2	LT4K243	.12	51	25	250	.034	2800	2800
- 3	LT4K244	.15	51	25	250	.037	2750	2750
- 4	LT4K245	.18	50	25	250	.047	2200	2200
- 5	LT4K246	.22	49	25	250	.067	1700	1700
- 6	LT4K247	.27	47	25	250	.11	1500	1500
- 7	LT4K248	.33	46	25	250	.13	1300	1300
- 8	LT4K249	.39	44	25	250	.18	1100	1100
- 9	LT4K250	.47	44	25	235	.25	1000	1000
- 10	LT4K251	.56	43	25	210	.33	900	900
- 11	LT4K252	.68	42	25	190	.45	750	750
- 12	LT4K253	.82	40	25	180	.59	600	600
- 13	LT4K254	1.00	47	25	140	.07	1900	1900
- 14	LT4K255	1.20	46	7.9	130	.093	1600	1600
- 15	LT4K256	1.50	45	7.9	115	.12	1300	1300
- 16	LT4K257	1.80	43	7.9	105	.14	1200	1200
- 17	LT4K258	2.20	45	7.9	100	.19	1100	1100
- 18	LT4K259	2.70	46	7.9	92	.28	950	950
- 19	LT4K260	3.30	44	7.9	85	.35	800	800
- 20	LT4K261	3.90	44	7.9	75	.40	750	750
- 21	LT4K262	4.70	44	7.9	70	.55	650	650
- 22	LT4K263	5.60	47	7.9	65	.72	550	550
- 23	LT4K264	6.80	50	7.9	55	1.02	500	500
- 24	LT4K265	8.20	50	7.9	50	1.32	475	475
- 25	LT4K266	10.0	49	7.9	46	1.62	450	450

Ⓐ Inactive for design after 7 March 1973
Use MS75087, MS75088, MS75089

Ⓐ denotes change

P.A. ARMY E L	TITLE COILS, RADIO FREQUENCY, MOLDED, SUBMINIATURE, SHIELDED, MAGNETIC TYPE LT4K242 TO LT4K314 INCL.	MILITARY STANDARD
Other Cust NAVY-EC AF-80		MS90537
Procurement Specification MIL-C-15305	SUPERSEDES:	PAGE 1 OF 3

5950-0438

This military standard is approved by the Department of Defense and is mandatory on all activities. Selection for all new engineering and design applications and for repetitive use shall be made from this document.

REVISED 20 March 1964 REVISED Ⓐ 7 March 1973

FED. SUP CLASS
5950

ELECTRICAL CHARACTERISTICS (INITIAL) - (Cont).

Dash No 1/	Type designation	Inductance $\pm 10\%$	Q min	Test frequency	Self-resonant frequency, min	DC resistance maximum	Rated DC current 2/	Incremental current
		<u>uh</u>		<u>mc</u>	<u>mc</u>	<u>Ohms</u>	<u>ma</u>	<u>ma</u>
-26	LT4K267	12 0	55	2 5	44	2 00	400	400
-27	LT4K268	15 0	44	2 5	49	80	620	250
-28	LT4K269	18 0	45	2 5	45	.89	610	235
-29	LT4K270	22.0	46	2 5	41	.96	600	220
-30	LT4K271	27 0	49	2 5	38	1 19	500	200
-31	LT4K272	33.0	45	2 5	34	1 37	490	190
-32	LT4K273	39.0	53	2 5	29	1 93	410	180
-33	LT4K274	47.0	52	2.5	27	2.11	400	175
-34	LT4K275	56.0	49	2 5	25	2 23	380	160
-35	LT4K276	68 0	51	2 5	21	2 70	370	150
-36	LT4K277	82.0	45	2 5	10 5	2 44	360	140
-37	LT4K278	100.0	52	2.5	10 0	3 12	325	120
-38	LT4K279	120.0	57	.79	9.7	3 60	290	95
-39	LT4K280	150 0	56	.79	8 5	4 10	275	90
-40	LT4K281	180.0	60	.79	8.0	4 40	260	85
-41	LT4K282	220 0	58	.79	7 5	5 00	250	80
-42	LT4K283	270.0	60	.79	7.0	5 80	240	70
-43	LT4K284	330 0	54	.79	6 5	6 40	225	65
-44	LT4K285	390.0	67	.79	6.2	7.40	200	60
-45	LT4K286	470 0	60	.79	5 7	9 50	180	58
-46	LT4K287	560.0	60	.79	4 7	10 5	174	55
-47	LT4K288	680 0	60	.79	4.5	11 8	168	50
-48	LT4K289	820 0	57	.79	4 2	13 0	152	45
-49	LT4K290	1,000 0	65	.79	3.8	17 5	135	40
-50	LT4K291	1,200 0	45	25	1 5	22 1	115	35
-51	LT4K292	1,500 0	49	25	1 2	26 5	110	33
-52	LT4K293	1,800 0	47	25	1.0	29 9	105	30
-53	LT4K294	2,200 0	50	25	.97	33 8	99	27
-54	LT4K295	2,700 0	47	25	.92	47 3	83	25
-55	LT4K296	3,300 0	43	25	.84	53 0	80	22
-56	LT4K297	3,900 0	43	25	.80	73 8	67	20
-57	LT4K298	4,700 0	44	25	.74	81 6	63	19
-58	LT4K299	5,600 0	45	25	.73	98 9	56	17
-59	LT4K300	6,800 0	43	25	.66	111 0	54	16
-60	LT4K301	8,200 0	42	25	.54	119 0	52	15
-61	LT4K302	10,000 0	39	25	.47	137 0	49	14
-62	LT4K303	12,000 0	31	.079	.33	143 0	46	13
-63	LT4K304	15,000 0	31	.079	.29	157 0	45	12
-64	LT4K305	18,000 0	31	.079	.28	175.0	41	10
-65	LT4K306	22,000 0	27	.079	.25	274 0	33	9
-66	LT4K307	27,000 0	27	.079	.21	308 0	31	8
-67	LT4K308	33,000 0	27	.079	.19	343 0	30	7 5
-68	LT4K309	39,000 0	27	.079	.17	376.0	27	6 0
-69	LT4K310	47,000.0	23	.079	.16	473.0	26	5.5
-70	LT4K311	56,000 0	23	.079	.14	512.0	25	5 0
-71	LT4K312	68,000 0	23	.079	.13	580 0	24	4 0
-72	LT4K313	82,000 0	21	.079	.12	618 0	23	3.5
-73	LT4K314	100,000 0	18	.079	.11	678 0	22	3 0

1/ The dash number added to the MS military standard number constitutes the MS part number, for example, MS90537-1

2/ For the overload test, direct current shall be used. The value of this current shall be 1.5 times the rated DC current

P.A.	ARMY EL	TITLE	MILITARY STANDARD
Other Cust	NAVY-EC	COILS, RADIO FREQUENCY, MOLDED, SUBMINIATURE, SHIELDED, MAGNETIC TYPE LT4K242 TO LT4K314 INCL	MS 90537
AF-80			
Procurement Specification	SUPERSEDES:		PAGE 2 OF 3
MIL-C-15305			

APPROVED 20 March 1964 REVISED A FOR CHANGES SEE PAGE 3

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5950-0438

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5950

Electrical Characteristics (Final) (A)				
Inspection Group	Allowable variation from initial measurement		Allowable % from specified minimum value in Electrical Characteristics (Initial) table	
	Inductance	DC resistance	Self-resonant frequency	
	Percent			
Qualification Inspection				
Group II	±5	—	—	-10
Group IV	±5	±(20+ .001ohm)	-5	-10
Quality Conformance Inspection				
Group C Subgroup I	±5	—	—	-10
Subgroup II	±5	±(20+ .001ohm)	-5	-10

(A)

NOTES:

1. Barometric pressure test (test condition C) is applicable.
2. Shock, specified pulse, method 213, test condition I, is applicable.
3. These coils are intended to be supported by their leads.
4. Solderable/weldable lead wire AWG#22.
5. Life test not applicable.
6. Dimensions are in inches.
7. Metric equivalents (to the nearest .01 mm) are given for general information only and are based upon 1 inch = 25.4 mm.
8. Referenced document shall be the issue in effect on date of invitation for bid.
9. This standard takes precedence over the procurement specification referenced herein.

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5950-0438

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SPECIFICATION ANALYSIS SHEET		Form Approved Budget Bureau No 22-R255
INSTRUCTIONS This sheet is to be filled out by personnel, either Government or contractor, involved in the use of the specification in procurement of products for ultimate use by the Department of Defense. This sheet is provided for obtaining information on the use of this specification which will insure that suitable products can be procured with a minimum amount of delay and at the least cost. Comments and the return of this form will be appreciated. Fold on lines on reverse side, staple in corner, and send to preparing activity. Comments and suggestions submitted on this form do not constitute or imply authorization to waive any portion of the referenced document(s) or serve to amend contractual requirements.		
SPECIFICATION MS90537 COILS, RADIO FREQUENCY, MOLDED, SUBMINIATURE, SHIELDED, MAGNETIC TYPE LTLK242 TO LTLK314 INCL.		
ORGANIZATION		
CITY AND STATE	CONTRACT NUMBER	
MATERIAL PROCURED UNDER A <input type="checkbox"/> DIRECT GOVERNMENT CONTRACT <input type="checkbox"/> SUBCONTRACT		
1 HAS ANY PART OF THE SPECIFICATION CREATED PROBLEMS OR REQUIRED INTERPRETATION IN PROCUREMENT USE? A GIVE PARAGRAPH NUMBER AND WORDING		
B RECOMMENDATIONS FOR CORRECTING THE DEFICIENCIES		
2 COMMENTS ON ANY SPECIFICATION REQUIREMENT CONSIDERED TOO RIGID		
3 IS THE SPECIFICATION RESTRICTIVE? <input type="checkbox"/> YES <input type="checkbox"/> NO (If "yes", in what way?)		
4 REMARKS (Attach any pertinent data which may be of use in improving this specification. If there are additional papers, attach to form and place both in an envelope addressed to preparing activity)		
SUBMITTED BY (Printed or typed name and activity - Optional)		DATE

DD FORM 1426

1 JAN 66

REPLACES EDITION OF 1 OCT 64 WHICH MAY BE USED

ESC-FM 1068-68

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