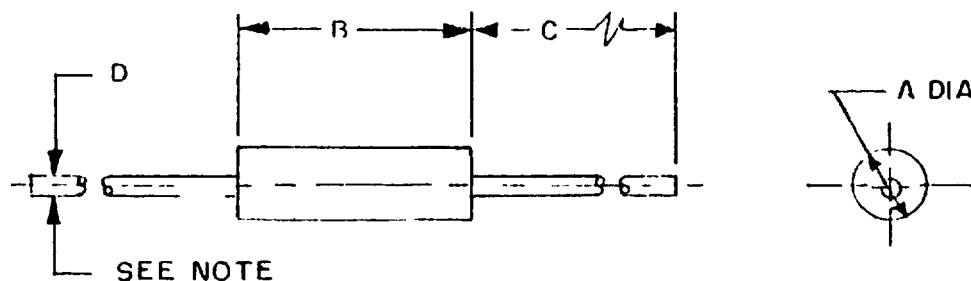


REQUIREMENTS FOR ACQUIRING THE PRODUCT(S) DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION SHEET AND THE ISSUE OF THE FOLLOWING SPECIFICATION LISTED IN THAT ISSUE OF THE DODISS SPECIFIED IN THE SOLICITATION MIL-C-20505



NOTE Tinned copper-wire lead terminal, AWG #24.

LTR	Dimensions in inches with metric equivalents (mm) in parentheses	
	Dimensions	Tolerance
A	.136 (3.45)	Max
B	.335 (8.51)	±.010 (0.25)
C	1.438 (36.53)	±.188 (4.78)
D	.020 (0.51)	±.002 (0.05)

Ratings	
Style	LT10
Grade	1
Class	A
Temperature rise	15°C
Ambient temperature	90°C
Operating temperature range	-55°C to +105°C
Dielectric withstanding voltage (sea level)	700 volts rms for a minimum of 60 seconds
Dielectric withstanding voltage (reduced barometric pressure)	100 volts rms for a minimum of 60 seconds
Terminal pull	5 pounds
Altitude	70,000 feet
Percent coupling	3 percent, maximum
Weight	.50 gram, maximum

Ⓒ denotes changes

THIS SPECIFICATION IS APPROVED FOR USE BY Departments and Agencies of the Department of Defense.

PREPARING ACTIVITY Air Force - 85
CUSTODIANS ARMY ER NAVY EC
AIR FORCE DLA

REVIEW Army-AR,MI, Air Force-17,99
USER Air Force - 19
PROJECT NUMBER 5950-0751

DISTRIBUTION STATEMENT

MILITARY SPECIFICATION SHEET

TITLE COILS, RADIO FREQUENCY,
MOLDED, FIXED, MICRO-MINIATURE,
MAGNETICALLY SHIELDED, (FERRITE
CORE-FERRITE SLEEVE) TYPES,
LT10K 483 to LT10K 517 INCL

SPECIFICATION SHEET NUMBER

MS21401C 1 Nov 1990

SUPERSEDING

MS21401B 3 August 1979

AMSC N/A

FSC 5950

A: Approved for public release; distribution is unlimited.

Page 1 of 3

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THIS SPECIFICATION IS APPROVED FOR USE BY Departments and Agencies of the Department of Defense.

Electrical characteristics (initial)								
Dash no. 1/	Type designation	Inductance ±10%	Q min ①	Test frequency	Self-resonant frequency min	DC resistance at 25°C, max	Max rated dc current	Incremental current
		μh		MHz	MHz	ohms	ma	ma
- 1	LT10K483	15	35	2.5	48	.635	314	200
- 2	LT10K484	18	35	2.5	44	.728	293	175
- 3	LT10K485	22	35	2.5	37	.825	275	160
- 4	LT10K486	27	35	2.5	32	.950	256	155
- 5	LT10K487	33	36	2.5	30	1.26	223	150
- 6	LT10K488	39	36	2.5	27	1.42	210	145
- 7	LT10K489	47	36	2.5	23	1.72	191	140
- 8	LT10K490	56	38	2.5	21	2.03	175	130
- 9	LT10K491	68	38	2.5	18.5	2.29	165	120
-10	LT10K492	82	36	2.5	17.0	2.55	157	115
-11	LT10K493	100	36	2.5	15.5	2.92	146	100
-12	LT10K494	120	43	0.79	14.5	3.30	154	80
-13	LT10K495	150	43	0.79	13.0	4.30	147	68
-14	LT10K496	180	43	0.79	11.5	5.40	120	64
-15	LT10K497	220	45	0.79	10.0	6.65	108	60
-16	LT10K498	270	47	0.79	9.50	7.60	101	58
-17	LT10K499	330	47	0.79	8.50	8.50	96	56
-18	LT10K500	390	47	0.79	8.00	10.0	88	54
-19	LT10K501	470	47	0.79	7.20	13.5	76	52
-20	LT10K502	560	51	0.79	6.40	14.5	73	50
-21	LT10K503	680	51	0.79	5.80	16.0	70	48
-22	LT10K504	820	48	0.79	5.30	19.0	64	47
-23	LT10K505	1,000	48	0.79	4.80	21.5	60	45
-24	LT10K506	1,200	45	0.25	2.90	23	52	40
-25	LT10K507	1,500	45	0.25	2.80	30	46	35
-26	LT10K508	1,800	45	0.25	2.60	33	44	32
-27	LT10K509	2,200	45	0.25	2.55	40	40	30
-28	LT10K510	2,700	45	0.25	2.40	43	38	28
-29	LT10K511	3,300	45	0.25	2.00	58	33	26
-30	LT10K512	3,900	45	0.25	1.95	76	29	23
-31	LT10K513	4,700	45	0.25	1.85	85	27	20
-32	LT10K514	5,600	45	0.25	1.75	100	25	18
-33	LT10K515	6,800	40	0.25	1.58	127	22	15
-34	LT10K516	8,200	40	0.25	1.55	150	20	12
-35	LT10K517	10,000	40	0.25	1.45	190	18	10

1/ The dash number added to the MS military standard number constitutes the MS part number, for example MS21401-1.

PREPARING ACTIVITY Air Force - 85
CUSTODIANS ARMY ER NAVY LC
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REVIEW Army-AR, MI, Air Force-17, 99
USER Air Force - 19
PROJECT NUMBER 5950-0751

DISTRIBUTION STATEMENT

MILITARY SPECIFICATION SHEET

TITLE COILS, RADIO FREQUENCY,
MOLDED, FIXLD, MICRO-MINIATURE,
MAGNETICALLY SHIELDED, (FERRITE
CORE-FERRITE SLEEVE) TYPES,
LT10K 483 to LT10K 517 INCL.

SPECIFICATION SHEET NUMBER

MS21401C

SUPERSEDING

MS21401B 3 August 1979

AMSC N/A

FSC 5950

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Electrical characteristics (final)				
Inspection group	Allowable variation from initial measurement		Allowable % from specified minimum value in electrical characteristics (initial) table	
	Inductance	DC resistance	Self-resonant frequency	Q
Qualification inspection	Percent			
Group II	±5	---	---	-10
Group III	±10	±(5% + .001 ohm)	-15	-20
Group IV	±5	±(2% + .001 ohm)	-5	-20
Quality conformance inspection				
Group C				
Subgroup I	±5	---	---	-10
Subgroup II	±5	±(2% + .001 ohm)	-5	-20
Subgroup III	±10	±(4% + .001 ohm)	-15	-20

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Barometric pressure test (test condition C) is applicable.
4. Shock, specified pulse, method 213, test condition I, is applicable.
5. These coils are intended to be supported by their leads.
6. After the overload test is performed, a period of 24 hours shall elapse prior to taking electrical characteristics (final) measurements.
7. DC resistance shall be the last measurement taken in the electrical characteristics test sequence.
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.

THIS SPECIFICATION IS APPROVED FOR USE BY Departments and Agencies in the Department of Defense.

PREPARING ACTIVITY Air Force - 85 CUSTODIANS ARMY LR NAVY- EC AIR FORCE DLA		MILITARY SPECIFICATION SHEET TITLE COILS, RADIO FREQUENCY, MOLDED, FIXED, MICRO-MINIATURE, MAGNETICALLY SHIELDED, (FERRITE CORE-FERRITE SLEEVE) TYPES, LT10K 483 to LT10K 517 INCL	SPECIFICATION SHEET NUMBER MS21401C
REVIEW Army-AR, MI, Air Force-17, 95 USER Air Force - 19 PROJECT NUMBER 5950-0751		SUPERSEDING MS21401B 3 August 1979	AMSC N/A FSC 5950
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