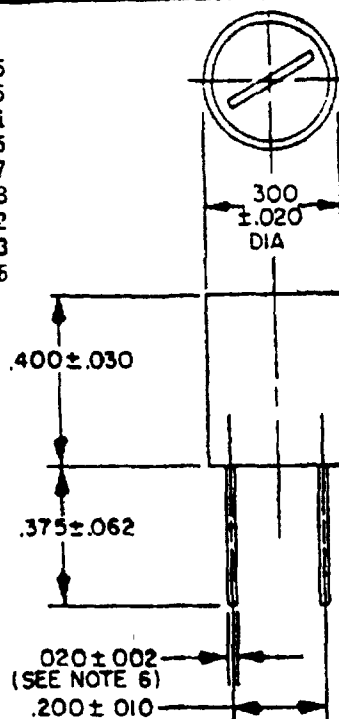


UNIT REVIEW
VPM
AIR FORCE - 19

REVIEW ACTIVITIES
ARMY MI
NAVY
AIR FORCE
DLA-ES
11,17,99

This military standard is approved for use by all Departments and Agencies of the Department of Defense. Selection for all new engineering and design applications and for repetitive use shall be made from this document when applicable.

Inches	mm
.002	0.05
.010	0.25
.020	0.51
.030	0.76
.062	1.57
.200	5.08
.300	7.62
.375	9.53
.400	10.16



Style	Ratings	LT10
Grade		1
Class		A
Operating temperature range		-55°C to +105°C
Ambient temperature		90°C max
Temperature rise		15°C max
Working voltage		300 Vdc
Percent coupling		3% max
Dielectric withstand voltages		
Sea level		840 Vrms min
Reduced barometric pressure		630 Vrms min
Terminal pull		3 pounds min
Tuning torque	(D)	0.40 to 6 in-oz
Weight		1.5 grams max
Altitude		70,000 FT

Electrical characteristics (initial)

Dash No. 1/	Type designation	Inductance tuning range			Test frequency (LHQ)	Q min at L nom	Minimum self-resonant frequency at L nom	DC resistance	Rated DC current (max)	Incremental current
		L nom	L min	L max						
		<u>uH</u>	<u>uH</u>	<u>uH</u>	<u>MHz</u>		<u>MHz</u>	<u>ohms</u>	<u>mA</u>	<u>mA</u>
-1	LT10V210	100	90	110	2.5	61	8.40	2.15	180	140
-2	LT10V211	120	108	132	.790	61	4.50	2.38	171	130
-3	LT10V212	150	135	165	.790	58	4.16	2.52	167	125
-4	LT10V213	180	162	198	.790	61	3.92	2.88	156	110
-5	LT10V214	220	198	242	.790	61	3.70	3.18	145	95
-6	LT10V215	270	243	297	.790	64	3.36	3.50	141	90
-7	LT10V216	330	297	363	.790	64	2.83	4.80	121	75
-8	LT10V217	390	351	429	.790	64	2.76	5.44	113	70
-9	LT10V218	470	423	517	.790	64	2.58	5.90	109	65
-10	LT10V219	560	504	616	.790	61	2.34	6.3	105	60
-11	LT10V220	680	612	748	.790	64	2.18	7.2	97	57
-12	LT10V221	820	738	902	.790	58	2.00	8.0	94	55
-13	LT10V222	1,000	900	1,100	.790	64	1.88	12.0	76	43
-14	LT10V223	1,200	1,080	1,320	.250	61	1.76	13.5	72	40
-15	LT10V224	1,500	1,350	1,680	.250	58	1.52	16.5	65	37
-16	LT10V225	1,800	1,620	1,980	.250	64	1.44	18.0	62	35
-17	LT10V226	2,200	1,980	2,420	.250	64	1.36	20.5	58	34
-18	LT10V227	2,700	2,430	2,970	.250	61	1.20	22.5	56	33
-19	LT10V228	3,300	2,970	3,630	.250	58	1.12	42.0	41	25
-20	LT10V229	3,900	3,510	4,290	.250	55	1.02	47.5	38	23
-21	LT10V230	4,700	4,230	5,170	.250	55	.994	53.0	36	20

(D) Denotes changes

P A 85	International Interest	TITLE: COILS, RADIO FREQUENCY, MOLDED, VARIABLE, SUBMINIATURE, FERRITE CORE, MAGNETICALLY SHIELDED, TYPES LT10V210 TO LT10V246 INCL	MILITARY STANDARD
Other Cust: EC ER			MS21402
Procurement Specification MIL-C-15305	SUPERSEDES: MS21402(USAF)	PAGE 1	OF 4

DD FORM 672 (COORDINATED)
1 SEP 61

AMSC N/A

DISTRIBUTION STATEMENT A. Approved for public release, distribution is unlimited.

5950-0684-02

APPROVED 7 NOV 1973 REVISED (A) 15 FEB 74 (B) 17 AUG 79 (C) 6 SEP 82 (D) 8 MAY 87

This military standard is approved for use by all Departments and Agencies of the Department of Defense. Selection for all new engineering and design applications and for repetitive use shall be made from this document when applicable.

Review activities: Army - MI, Navy - DLA-ES, Air Force - 11,17, 99

User activities: Army - , Navy - , Air Force - 19

P A 85	International interest	TITLE: COILS, RADIO FREQUENCY, MOLDED, VARIABLE, SUBMINIATURE, FERRITE CORE, MAGNETICALLY SHIELDED, TYPES LT10V210 TO LT10V246 INCL	MILITARY STANDARD
Other Cust EC ER			MS21402
Procurement Specification MIL-C-15305	SUPERSEDES MS21402(USAF)	PAGE 2 OF 4	

DD FORM 1 SEP 63 672 (COORDINATED)

Electrical characteristics (initial) continued

Dash No. 1/	Type designation	Inductance tuning range			Test frequency (L&)	Q min at L nom	Minimum self resonant frequency at L nom	DC resistance	Rated DC current (max)	Incremental current
		L nom	L min	L max						
-22	LT10V231	5,600	5,040	6,160	MHZ	51	.744	ohms	mA	19
-23	LT10V232	6,800	6,120	7,480	.250	48	.632	62.5	33	18
-24	LT10V233	8,200	7,380	9,020	.250	51	.600	69.5	32	17
-25	LT10V234	10,000	9,000	11,000	.250	45	.560	75.0	31	15
-26	LT10V235	12,000	10,800	13,200	.079	45	.400	100.0	26	19
-27	LT10V236	15,000	13,500	16,500	.079	45	.304	84	29	17
-28	LT10V237	18,000	16,200	19,800	.079	45	.288	93	27	16
-29	LT10V238	22,000	19,800	24,200	.079	45	.256	104	26	15
-30	LT10V239	27,000	24,300	29,700	.079	45	.240	173	20	13
-31	LT10V240	33,000	29,700	36,300	.079	45	.216	187	19	12
-32	LT10V241	39,000	35,100	42,900	.079	45	.208	220	18	11
-33	LT10V242	47,000	42,300	51,700	.079	45	.200	253	17	10
-34	LT10V243	56,000	50,400	61,600	.079	45	.192	285	16	9
-35	LT10V244	68,000	61,200	74,800	.079	39	.160	311	15	8
-36	LT10V245	82,000	73,800	90,200	.079	39	.152	385	14	7
-37	LT10V246	100,000	90,000	110,000	.079	39	.136	420	13	6

1/ The dash number added to the MS military standard number constitutes the MS part number, for example MS21402-1.

FED SUP CLASS
5950

APPROVED 7 NOV 1973 REVISED (D) For changes see page 1

FED SUP CLASS
5950User activities
Army
Navy
Air Force - 19

User activities

Army - MI,
Navy -
Air Force - 11, 17, 99
DLA-ES

Review activities

This military standard is approved for use by all Departments and Agencies of the Department of Defense. Selection for all new engineering and design applications and for repetitive use shall be made from this document when applicable.

Electrical Characteristics (Final)

Inspection Group	Allowable variation from initial measurement		Allowable δ from specified minimum value in Electrical Characteristics (Initial) table	
	1/ Inductance Percent	DC resistance	Self-resonant frequency	Q
Qualification Inspection				
Group II	± 2	----	----	-10
Group III	± 10	$\pm (5\% + .001 \text{ ohm})$	-15	-20
Group IV	± 5	$\pm (2\% + .001 \text{ ohm})$	-8	-20
Quality Conformance Inspection				
Group C				
Subgroup I	± 2	----	----	-10
Subgroup II	± 5	$\pm (2\% + .001 \text{ ohm})$	-8	-20
Subgroup III	± 10	$\pm (5\% + .001 \text{ ohm})$	-15	-20

1/ Initial inductance shall consist of testing the variable for the inductance range; equal to or less than MIN. L and equal to or more than MAX L

The variable shall then be set to the nominal inductance

The remaining applicable electrical characteristics shall be read without readjusting the unit.

Allowable variation from initial inductance shall be the percent change between nominal inductance and the final inductance reading.

The variable shall not be reset or adjusted between initial and final inductance tests.

P A Other Cust	85 EC ER	International interest	TITLE: COILS, RADIO FREQUENCY, MOLDED VARIABLE, SUBMINIATURE, FERRITE CORE, MAGNETICALLY SHIELDED, TYPES LT10V210 TO LT10V248 INCL	MILITARY STANDARD
				MS21402
Procurement Specification MIL-C-15305			SUPERSEDES: MS21402(USAF)	PAGE 3 OF 4

DD FORM 672 (COORDINATED)
1 SEP 83

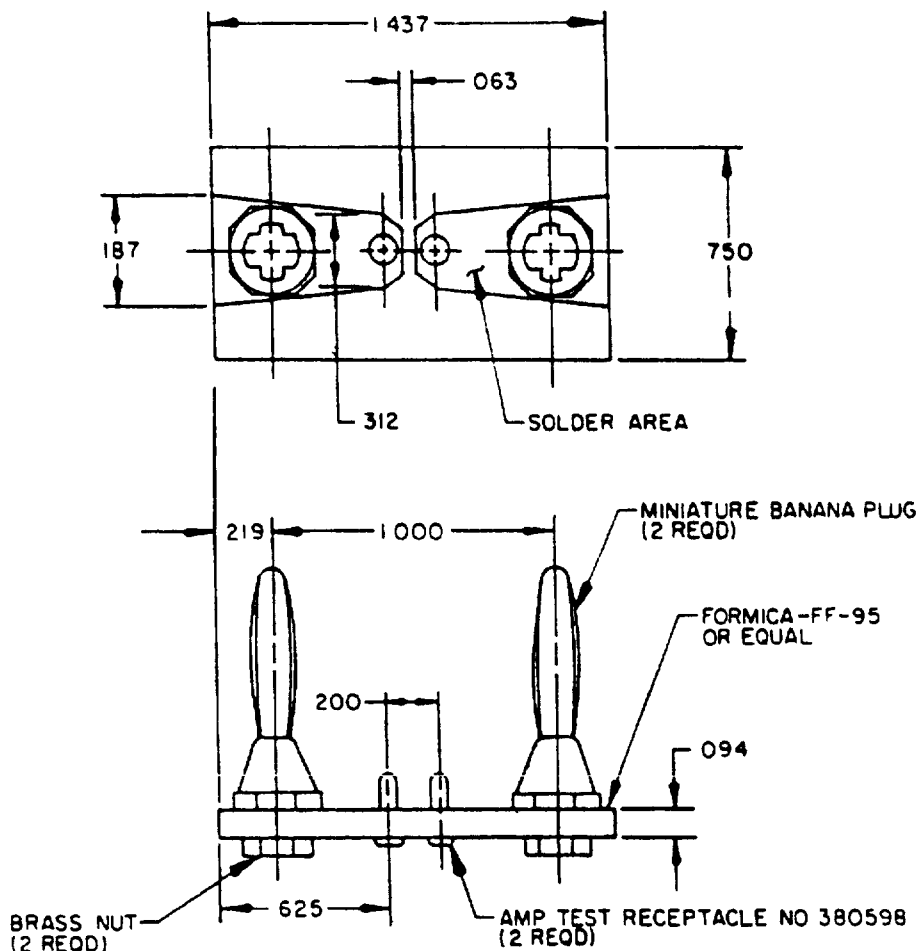
APPROVED 7 NOV 1973 REVISED ① For changes see page 1

User activities
Army
Navy
Air Force - 19

Review activities
Army - MI
Navy
Air Force - 11, 17, 99
DLA-ES

This military standard is approved for use by all Departments and Agencies of the Department of Defense. Selection for all new engineering and design applications, and for repetitive use shall be made from this document when applicable.

FED SUP CLASS
5950



INCH	mm
063	1 60
094	2 39
187	4 75
200	5 08
219	5 56
312	7 92
625	15 88
750	19 05
1 000	25 40
1 437	36 50

TEST FIXTURE FOR ELECTRICAL MEASUREMENTS

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. These coils are intended to be mounted by the body.
4. Barometric pressure test (test condition C) is applicable.
5. Shock, specified pulse, method 213, test condition I, is applicable.
6. Tinned copper lead wire, AWG No.24.
7. In the event of a conflict between the text of this standard and the references cited herein, the text of this standard shall take precedence.
8. Referenced Government documents of the issue listed in that issue of the Department of Defense Index of Specifications and Standards (DODISS) specified in the solicitation form a part of this standard to the extent specified herein.
9. Tolerance is ± 0.005 (0.13 mm).

P A	85	International Interest	TITLE COILS, RADIO FREQUENCY, MOLDED, VARIABLE, SUBMINIATURE, FERRITE CORE, MAGNETICALLY SHIELDED, TYPES LT10V210 TO LT10V246 INCL	MILITARY STANDARD
Other Cust	EC ER			MS21402
Procurement Specification MIL-C-15305		SUPERSEDES MS21402(USAF)		PAGE 4 OF 4

DD FORM 672 (COORDINATED)
1 SEP 63

APPROVED 7 NOV 1973 REVISED ① For changes see page 1