MILITARY SPECIFICATION

COILS, FIXED AND VARIABLE, RADIO FREQUENCY

GENERAL SPECIFICATION FOR

This supplement forms a part of MIL-C-15305E, dated 17 July 1979.

PART I

MS STANDARDS

(See Part II for listing of military standards arranged by function.)

MS14040	-	Coils, Radio Frequency, Molded, Fixed, Subminiature (Iron Core) Types LT10K097 to LT10K107 Incl. (INACTIVE FOR DESIGN)
MS14041	-	Coils, Radio Frequency, Molded, Fixed, Subminiature (Iron Core) Types LT10K108 to LT10K112 Incl. (INACTIVE FOR DESIGN)
MS14042	-	Coils, Radio Frequency, Molded, Fixed, Subminiature (Iron Core) Types LT10K113 to LT10K117 Incl. (INACTIVE FOR DESIGN)
MS14043	-	Coils, Radio Frequency, Molded, Fixed, Subminiature (Iron Core) Types LT10K118 to LT10K122 Incl. (INACTIVE FOR DESIGN)
MS14044	-	Coils, Radio Frequency, Molded, Fixed, Subminiature (Iron Core) Types LT10K123 to LT10K127 Incl. (INACTIVE FOR DESIGN)
MS14046	-	Coils, Radio Frequency, Molded, Fixed, Microminiature (Iron Core) Types LT10K128 to LT10K137 Incl. (INACTIVE FOR DESIGN)
MS14047	-	Coils, Radio Frequency, Molded, Fixed, Subminiature (Iron Core) Types LT10K138 to LT10K142 Incl.
MS14048	-	Coils, Radio Frequency, Molded, Fixed, Subminiature (Iron Core) Types LT10K143 to LT10K147 Incl.
MS14049	-	Coils, Radio Frequency, Molded, Fixed, Subminiature (Iron Core) Types LT10K148 to LT10K152 Incl.
MS14050	-	Coils, Radio Frequency, Molded, Fixed, Subminiature (Iron Core) Types LT10K153 to LT10K157 Incl.
MS14052	-	Coils, Radio Frequency, Molded, Fixed, Subminiature (Iron Core) Types LT10K158 to LT10K168 Incl.
MS18100	-	Coils, Radio Frequency, Molded, Fixed, Subminiature (Phenolic Core) Types LT4K200 to LT4K208 Incl. LT4K220 and LT4K221. (INACTIVE FOR DESIGN)
MS18130	-	Coils, Radio Frequency, Molded, Fixed, Microminiature (Phenolic Core) Types LT4K074 to LT4K089 Incl. (INACTIVE FOR DESIGN)
MS21358(USAF)	-	Coils, Radio Frequency, Metal Encased, Fixed, Miniature (Iron Core) Type LT10K.
MS21363(USAF)	-	Coils, Radio Frequency, Molded, Fixed, Micro-Miniature, Magnetically Shielded, (Ferrite Core-Ferrite Sleeve) Types LT10K307 to LT10K353 Incl. (INACTIVE FOR DESIGN)
MS21367(USAF)	-	Coil, Radio Frequency, Encapsulated, Fixed, Micro-Miniature, Shielded, (Iron Core) Types LT10K354 to LT10K383, Incl.
MS21368(USAF)	-	Coil, Radio Frequency, Encapsulated, Fixed, Micro-Miniature, Shielded, (Iron Core) Types LT10K384 to LT10K395, Incl.
MS21369(USAF)	-	Coil, Radio Frequency, Encapsulated, Fixed, Micro-Miniature, Shielded, (Iron Core) Types LT10K396 to LT10K407, Incl.
MS21380(USAF)	-	Coils, Radio Frequency, Molded, Fixed, Subminiature, Iron Core Types LT4K352 to LT4K400, Incl.
MS21381	-	Coils, Radio Frequency, Molded, Variable, Subminiature, Iron Core, Magnetically Shielded, Types LT10V174 to LT10V209 Incl. and LT10V247 to LT10V258 Incl.
MS21388(USAF)	-	Coils, Radio Frequency, Molded, Fixed, Subminiature, Iron Core, Types LT4K401 to LT4K439 Incl.
MS21389(USAF)	-	Coils, Radio Frequency, Molded, Fixed, Subminiature, Phenolic Core, Types LT4K440 to LT4K456 Incl.

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MS21390(USAF)	-	Coils, Radio Frequency, Molded, Fixed, Subminiature, Iron Core, Types LT4K457 to LT4K495 Incl.
MS21396(85)	-	Coils, Radio Frequency, Molded, Fixed, Micro-Miniature, Magnetically Shielded (Iron Core-Iron Sleeve) Type LT4K.
MS21397(85)	-	Coils, Radio Frequency, Molded, Fixed, Micro-Miniature, Magnetically Shielded (Ferrite Core-Ferrite Sleeve) Type LT4K.
MS21399	-	Coils, Radio Frequency, Molded, Fixed, Micro-Miniature, Magnetically Shielded (Phenolic Core-Iron Sleeve) Types, LT10K457 to LT10K468 Incl.
MS21400	-	Coils, Radio Frequency, Molded, Fixed, Micro-Miniature, Magnetically Shielded (Iron Core - Iron Sleeve) Types, LT10K469 to LT10K482 Incl.
MS21401	-	Coils, Radio Frequency, Molded, Fixed, Micro-Miniature, Magnetically Shielded (Ferrite Core-Ferrite Sleeve) Types, LT10K483 to LT10K517 Incl.
MS21402	-	Coils, Radio Frequency, Molded, Variable, Subminiature, Ferrite Core, Magnetically Shielded, Types LT10V210 to LT10V246 Incl.
MS21422(USAF)	-	Coils, Radio Frequency, Molded, Fixed, Subminiature, Types LT4K496 to LT4K520 Incl.
MS21423(USAF)	-	Coils, Radio Frequency, Molded, Fixed, Subminiature, Types LT4K521 to LT4K545 Incl.
MS21424(USAF)	-	Coils, Radio Frequency, Molded, Fixed, Subminiature Types LT4K546 to LT4K570 Incl.
MS21426(USAF)	-	Coils, Radio Frequency, Molded, Fixed, Micro-Miniature Magnetically Shielded, (Iron Core - Iron Sleeve) Type LT10K.
MS21427(USAF)	-	Coils, Radio Frequency, Molded, Fixed, Micro-Miniature Magnetically Shielded, (Ferrite Core-Ferrite Sleeve) Type LT10K.
MS53229	-	Coils, Radio Frequency, Encapsulated, Variable, Micro-Miniature, (Iron Core), Types LT11V001 to LT11V021, Incl.
MS53230	-	Coils, Radio Frequency, Encapsulated, Variable, Microminiature, (Ferrite Core), Types LT11V022 to LT11V038, Incl.
MS53231	-	Coils, Radio Frequency, Encapsulated, Variable, Microminiature, (Iron Core), Types LT11V039 to LT11V059, Incl.
MS53232	-	Coils, Radio Frequency, Encapsulated, Variable, Microminiature, (Ferrite Core), Types LT11V060 to LT11V076, Incl.
MS53233	-	Coils, Radio Frequency, Encapsulated, Variable, Microminiature, (Iron Core), Types LT11V077 to LT11V097, Incl.
MS53234	-	Coils, Radio Frequency, Encapsulated, Variable, Microminiature, (Ferrite Core), Types LT11V098 to LT11V114, Incl.
MS75008	-	Coils, Radiofrequency, Molded, Fixed, Subminiature (Phenolic Core) Types LT4K027 to LT4K039 Incl. (INACTIVE FOR DESIGN)
MS75052	-	Coils, Radio Frequency, Molded, Fixed, Subminiature (Phenolic Core) Types LT4K052 and LT4K053.
MS75083	-	Coils, Radio Frequency, Molded Fixed, (Phenolic Core), Types LT4K339 to LT4K351, Inclusive. (INACTIVE FOR DESIGN)
MS75084	-	Coils, Radio Frequency, Molded Fixed, (Iron Core), Types LT10K061 to LT10K077, Inclusive. (INACTIVE FOR DESIGN)
MS75085	-	Coils, Radio Frequency, Molded, Fixed, (Ferrite Core), Types LT10K078 to LT10K096, Inclusive. (INACTIVE FOR DESIGN)
MS75087	-	Coils, Radio Frequency, Molded, Fixed, Micro-Miniature, Magnetically Shielded (Phenolic Core-Iron Sleeve) Types, LT10K191 to LT10K202 Incl. (INACTIVE FOR DESIGN)
MS75088	-	Coils, Radio Frequency, Molded, Fixed, Micro-Miniature, Magnetically Shielded (Iron Core-Iron Sleeve) Types, LT10K203 to LT10K216 Incl. (INACTIVE FOR DESIGN)
MS75089	-	Coils, Radio Frequency, Molded, Fixed, Micro-Miniature, Magnetically Shielded (Ferrite Core-Ferrite Sleeve) Types, LT10K217 to LT10K263 Incl. (INACTIVE FOR DESIGN)
MS75101	-	Coils, Radiofrequency, Molded, Fixed, Subminiature (Iron Core) Types LT10K169 to LT10K180 Incl. (INACTIVE FOR DESIGN)
MS75103	-	Coils, Radiofrequency, Molded, Fixed, Subminiature (Iron Core) Types LT10K181 to LT10K190 Incl.

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MS90537	-	Coils, Radio Frequency, Molded, Subminiature, Shielded, Magnetic Type LT4K242 to LT4K314 Incl. (INACTIVE FOR DESIGN)
MS90538	-	Coils, Radio Frequency, Molded, Fixed, Subminiature (Iron Core) Types LT10K001 to LT10K021 Incl.
MS90539	-	Coils, Radio Frequency, Molded, Fixed, Subminiature (Iron Core) Types LT10K022 to LT10K036 Incl.
MS90540	-	Coils, Radio Frequency, Molded, Fixed, Subminiature (Iron Core) Types LT10K037 to LT10K049 Incl.
MS90541	-	Coils, Radio Frequency, Molded, Fixed, Subminiature (Iron Core) Types LT10K050 to LT10K060 Incl.
MS90542	-	Coils, Radio Frequency, Molded, Fixed, Subminiature (Phenolic Core) Types LT4K315 to LT4K327 Incl.
MS90543	-	Coils, Radio Frequency, Molded, Variable, Powdered Iron Core (Printed Circuit Mt'g) Types LT12Y001 to LT12Y031 Inclusive.
MS90546	-	Coils, Radio Frequency, Molded Variable, Ferrite Core (Printed Circuit Mt'g) Types LT12Y032 to LT12Y062, Inclusive.
MS91189	-	Coils, Radiofrequency, Molded, Fixed, Subminiature (Phenolic Core) Types LT4K002 to LT4K016 Incl.

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PART II

COIL RF, (FIXED), (AXIAL LEADS), TYPE LT10K (105°C).

Military Standard	Inductance µH	Inductance tolerance	Rated dc current mA	Q min.	Max. dimensions Dia. (in.)	Max. dimensions Length (in.)	Shielded	Number of parts
MS75087	.10 to .32	±10%	1,790 to 370	50 to 40	.172	.430	Yes	12
MS21399	.10 to .82	±10%	1,038 to 447	42 to 35	.146	.523	Yes	12
MS21426	.10 to 100	±10%	670 to 51	54 to 40	.105	.260	Yes	37
MS75088	1.0 to 12.0	±10%	1,070 to 200	44 to 55	.172	.430	Yes	14
MS21400	1.0 to 12	±10%	678 to 173	38 to 51	.146	.523	Yes	14
MS75084	1.2 to 2[illegible]	±10%	590 to 135	25 to 50	.105	.260	---	17
MS75101	3.3 to 2[illegible]	±10%	990 to 205	30 to 65	.219	.469	---	12
MS14046	5.6 to 3[illegible]	±10%	495 to 165	45 to 65	.166	.385	---	10
MS14052	5.6 to 39	±10%	885 to 224	35 to 70	.230	.570	---	11
MS75089	15 to 100,000	±10%	315 to 11	45 to 18	.172	.430	Yes	47
MS21363	15 to 100,000	±5%	315 to 11	45 to 18	.172	.430	Yes	47
MS21401	15 to 10,000	±10%	314 to 18	45 to 50	.146	.523	Yes	35
MS75103	22 to 120	±10%	725 to 195	50 to 95	.313	1.000	---	10
MS75085	33 to 1,000	±10%	130 to 28	45 to 30	.105	.260	---	19
MS90538	36 to 240	±5%	180 to 101	60 to 65	.165	.385	---	21
MS14047	68 to 150	±10%	168 to 132	70 to 75	.260	.570	---	5
MS21427	120 to 560	±10%	88 to 40	31 to 36	.105	.260	Yes	9
MS14048	180 to 390	±10%	148 to 118	80 to 75	.320	.570	---	5
MS90539	270 to 1,000	±5%	110 to 78	65 to 60	.200	.450	---	15
MS14049	470 to 1,000	±10%	125 to 95	80 to 70	.385	.635	---	5
MS90540	1,100 to 3,600	±5%	78 to 57	60 to 70	.225	.570	---	13
MS14050	1,500 to 10,000	±10%	84 to 47	85 to 70	.478	.697	---	5
MS90541	3,900 to 10,000	±5%	61 to 47	80	.250	.750	---	11

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PART II

COIL RF, (FIXED), (AXIAL LEADS), TYPE LT4K (125°C).

Military Standard	Inductance µH	Inductance tolerance	Rated dc current mA	Q min.	Max. dimensions Dia. (in.)	Max. dimensions Length (in.)	Shielded	Number of parts
MS75083	.10 to 1.0	±10%	1,350 to 385	40 to 25	.105	.260	---	13
MS21389	.10 to 2.2	±20 to ±10%	4,000 to 610	75 to 45	.188	.440	---	17
MS90537	.10 to 100,000	±10%	2,900 to 22	50 to 18	.167	.415	Yes	73
MS75008	.15 to 2.7	±20 to ±10%	3,000 to 460	55 to 30	.219	.469	---	13
MS18130	.15 to 4.7	±20 to ±10%	2,450 to 260	50 to 33	.166	.385	---	16
MS90542	.47 to 4.7	±10%	1,970 to 360	65 to 40	.230	.570	---	13
MS21388	1.0 to 2,000	±20% to ±5%	2,700 to 100	100 to 70	.250	.600	---	39
MS21380	1.0 to 10,000	±10% to ±5%	4,000 to 80	130 to 65	.310	.900	---	49
MS91189	1.2 to 18	±10%	2,400 to 315	60 to 40	.313	1.000	---	15
MS21390	2.7 to 1,000	±10% to ±5%	1,600 to 104	55 to 60	.188	.440	---	39
MS75052	47 and 56	±10%	195 and 185	18	.260	.570	---	2
MS21396	.10 to 10	±10%	1,500 to 165	45 to 55	.105	.260	Yes	25
MS21397	12 to 1,000	±10%	230 to 15	55 to 36	.105	.260	Yes	24

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PART II

COIL RF, (FIXED), (RADIAL LEADS), LT10K (105°C).

Military Standard	Inductance µH	Inductance tolerance	Rated dc current mA	Q min.	Max. dimensions Dia. or width (in.)	Max. dimensions Length (in.)	Number of parts	Max. distance between pins (in.)	Shielded
MS21367	.015 to 10	±20% to ±10%	492 to 53	40 to 40	.110	.110	30	.110	Yes
MS14040	5.6 to 39	±10%	760 to 198	35 to 60	.266	.756	11	.610	---
MS21368	12 to 100	±10%	70 to 27	45	.160	.160	12	.110	Yes
MS14041	68 to 150	±10%	165 to 132	45 to 60	.313	.656	5	.510	---
MS21358	100 to 1,000	±5%	191 to 65	85 to 60	.365	.370	9	.210	---
MS21369	120 to 1,000	±10%	53 to 23	45 to 35	.260	.260	12	.210	Yes
MS14042	180 to 390	±10%	148 to 125	60 to 55	.406	.656	5	.510	---
MS14043	470 to 1,000	±10%	125 to 99	50 to 35	.468	.656	5	.510	---
MS14044	1,500 to 10,000	±10%	82 to 49	55 to 40	.531	.856	5	.710	---

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PART II

COIL RF, (FIXED), (RADIAL LEADS), LT4K (125°C).

Military Standard	Inductance µH	Inductance tolerance	Rated dc current mA	Q min.	Max. dimensions		Max distance between leads (in.)	Number of parts
					Dia. or width (in.)	Length (in.)		
MS21423	.01 to 1.0	±20% to ±10%	3,000 to 700	60 to 70	.210	.230	.110	25
MS21422	.10 to 10	±10% to ±5%	2,200 to 280	55 to 60	.210	.230	.110	25
MS18100	.47 to 4.7	±20% to ±10%	1,800 to 325	50 to 40	.266	.756	.610	9
MS21424	10 to 1,000	±5%	550 to 110	75 to 50	.280	.300	.210	25

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PART II

COIL RF, (VARIABLE), (RADIAL LEADS).

Military Standard	Inductance max. µH	Rated dc current mA	Q min.	Max. dimensions		Shielded	Max. distance between pins (in.)	Number of parts	Type designation
				Dia. or width (in.)	Length (in.)				
MS21381	.105 to 90.2	1,510 to 174	45 to 67	.300	.400	Yes	.200	48	LT4V
MS21402	110 to 110,000	180 to 13	76 to 48	.300	.400	Yes	.200	37	LT10V
MS53229	.025 to 8.2	250 to 50	50 to 25	.200	.275	---	.100	21	LT11V
MS53230	10 to 1,000	57 to 11	25 to 20	.200	.275	---	.100	17	LT11V
MS53231	.025 to 8.2	250 to 50	50 to 25	.097	.475	---	.180	21	LT11V
MS53232	10 to 1,000	57 to 11	25 to 20	.097	.475	---	.180	17	LT11V
MS53233	.025 to 8.2	250 to 50	50 to 25	.280	.450	---	.218	21	LT11V
MS53234	10 to 1,000	57 to 11	25 to 20	.280	.450	---	.218	17	LT11V
MS90543	.28 to 56,000	1,800 to 19	100 to 30	.400	.952	---	.600	31	LT12V
MS90546	.40 to 70,000	1,800 to 19	100 to 25	.400	.952	---	.600	31	LT12V

Preparing activity
Army - ER

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(Project 5950-0653)

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