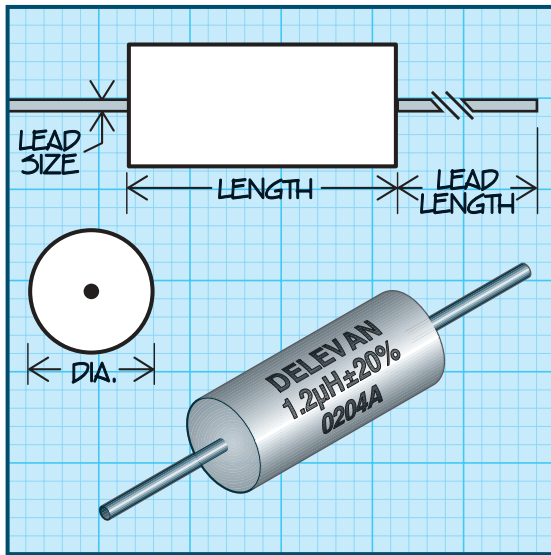


# Series 1944 & 1945

## Molded Unshielded RF Coils



**Test Methods** MIL-PRF-15305 test methods, only.  
 MS21389-01 to MS21389-17, reference - 1944 Series  
 MS21390-01 to MS21390-39, reference - 1945 Series

### Physical Parameters

	Inches	Millimeters
Length	0.420 to 0.447	10.67 to 11.35
Diameter	0.168 to 0.193	4.27 to 4.90
Lead Size		
AWG #22 TCW	0.023 to 0.027	0.584 to 0.686
Lead Length	1.30 Min.	33.02 Min.

**Current Rating at 90°C Ambient** 35°C Rise

**Operating Temperature** -55°C to +125°C

### Maximum Power Dissipation at 90°C

Series 1944: 0.385 W

Series 1945: 0.330 W

**Packaging** Tape & reel: 12" reel, 2500 pieces max.;  
 14" reel, 3000 pieces max. For additional packaging options, see page 146.

*Made in the U.S.A.*

	PART NUMBER	MIL DASH # (Ref.)	INDUCTANCE (µH)	TOLERANCE	INDUCTANCE TEST FREQUENCY (MHz)	Q-TEST FREQUENCY (MHz)	Q MINIMUM	SRF MINIMUM (MHz)	DC RESISTANCE MAXIMUM (OHMS)	CURRENT RATING MAXIMUM (ma)
<b>MS21389 (reference) – SERIES 1944 PHENOLIC CORE</b>										
1944-01M	1	0.10	± 20%	25	50	75	400	0.020	4000	
1944-02M	2	0.12	± 20%	25	50	75	400	0.025	3500	
1944-03M	3	0.15	± 20%	25	50	75	400	0.030	3000	
1944-04M	4	0.18	± 20%	25	50	65	400	0.030	3000	
1944-05M	5	0.22	± 20%	25	50	65	400	0.030	3000	
1944-06M	6	0.27	± 20%	25	45	65	376	0.040	2700	
1944-07M	7	0.33	± 20%	25	40	65	352	0.045	2500	
1944-08M	8	0.39	± 20%	25	40	60	320	0.070	2000	
1944-09M	9	0.47	± 20%	25	25	55	288	0.070	2000	
1944-10M	10	0.56	± 20%	25	25	50	264	0.100	1700	
1944-11M	11	0.68	± 20%	25	25	50	240	0.120	1500	
1944-12M	12	0.82	± 20%	25	25	45	220	0.160	1300	
1944-13M	13	1.00	± 20%	25	20	45	200	0.230	1100	
1944-14M	14	1.20	± 20%	7.9	20	45	176	0.280	1000	
1944-15K	15	1.50	± 10%	7.9	15	45	160	0.380	850	
1944-16K	16	1.80	± 10%	7.9	15	45	144	0.540	720	
1944-17K	17	2.20	± 10%	7.9	15	45	132	0.750	610	
<b>MS21390 (reference) – SERIES 1945 IRON CORE</b>										
1945-01K	1	2.70	± 10%	7.9	10	55	88	0.11	1600	
1945-02K	2	3.30	± 10%	7.9	10	55	80	0.14	1400	
1945-03K	3	3.90	± 10%	7.9	10	60	76	0.19	1200	
1945-04K	4	4.70	± 10%	7.9	7.9	70	72	0.28	1000	
1945-05K	5	5.60	± 10%	7.9	7.9	65	64	0.34	900	
1945-06K	6	6.80	± 10%	7.9	7.9	65	56	0.43	800	
1945-07K	7	8.20	± 10%	7.9	7.9	60	52	0.56	720	
1945-08K	8	10.0	± 10%	7.9	5.0	60	48	0.67	650	
1945-09K	9	12.0	± 10%	2.5	5.0	65	42.4	0.81	590	
1945-10K	10	15.0	± 10%	2.5	2.5	80	37.6	1.15	500	
1945-11K	11	18.0	± 10%	2.5	2.5	75	34.4	1.40	460	
1945-12K	12	22.0	± 10%	2.5	2.5	75	32.0	1.60	430	
1945-13J	13	27.0	± 5%	2.5	2.5	75	28.8	2.30	360	
1945-14J	14	33.0	± 5%	2.5	2.5	85	25.6	3.30	300	
1945-15J	15	39.0	± 5%	2.5	2.5	80	20.8	3.32	290	
1945-16J	16	47.0	± 5%	2.5	2.5	80	17.6	3.70	275	
1945-17J	17	56.0	± 5%	2.5	2.5	75	15.2	3.99	265	
1945-18J	18	68.0	± 5%	2.5	2.5	75	12.8	4.48	250	
1945-19J	19	82.0	± 5%	2.5	2.5	75	10.4	5.07	235	
1945-20J	20	100	± 5%	2.5	1.5	75	8.00	5.78	220	
1945-21J	21	120	± 5%	0.79	0.79	65	5.76	5.00	170	
1945-22J	22	150	± 5%	0.79	0.79	65	5.36	5.80	164	
1945-23J	23	180	± 5%	0.79	0.79	65	5.04	6.60	158	
1945-24J	24	220	± 5%	0.79	0.79	65	4.72	7.40	155	
1945-25J	25	270	± 5%	0.79	0.79	65	4.48	8.00	150	
1945-26J	26	300	± 5%	0.79	0.79	65	4.24	8.60	145	
1945-27J	27	330	± 5%	0.79	0.79	65	4.00	8.90	142	
1945-28J	28	360	± 5%	0.79	0.79	65	3.76	9.60	137	
1945-29J	29	390	± 5%	0.79	0.79	65	3.60	9.90	135	
1945-30J	30	430	± 5%	0.79	0.79	65	3.44	10.4	131	
1945-31J	31	470	± 5%	0.79	0.79	65	3.20	10.9	128	
1945-32J	32	510	± 5%	0.79	0.79	65	3.04	11.6	124	
1945-33J	33	560	± 5%	0.79	0.79	60	2.88	11.8	123	
1945-34J	34	620	± 5%	0.79	0.79	60	2.80	12.5	120	
1945-35J	35	680	± 5%	0.79	0.79	60	2.72	13.5	115	
1945-36J	36	750	± 5%	0.79	0.79	60	2.64	14.0	113	
1945-37J	37	820	± 5%	0.79	0.79	60	2.48	15.0	110	
1945-38J	38	910	± 5%	0.79	0.79	60	2.40	15.5	107	
1945-39J	39	1000	± 5%	0.79	0.79	60	2.24	16.5	104	

Optional Tolerances: J = 5% H = 3% G = 2% F = 1%