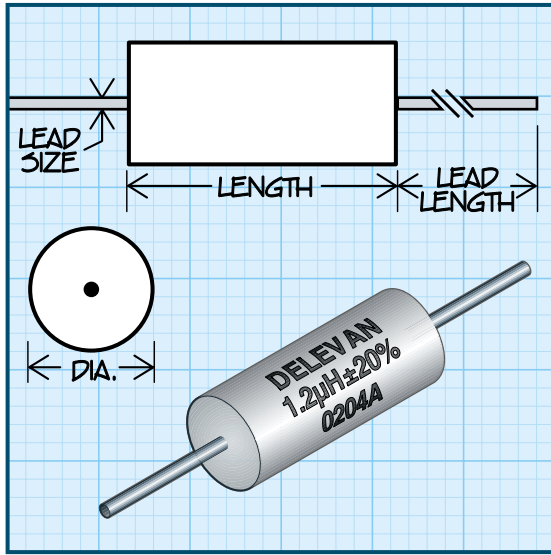


# Series 1944R & 1945R 1944 & 1945



## 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 technical section.

*Made in the U.S.A.*

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

Optional Tolerances: K = 10% J = 5% H = 3% G = 2% F = 1%

\*Complete part # must include series # PLUS the dash #

For further surface finish information, refer to TECHNICAL section of this catalog.