

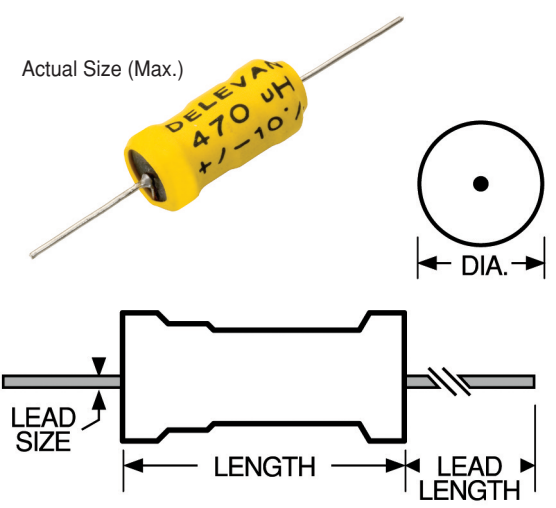
**SERIES**

**4590R**  
**4590**



**High Current Filter Inductors**

DASH NUMBER*	NOMINAL INDUCTANCE ( $\mu$ H) $\pm 10\%$	DC RESISTANCE MAXIMUM (OHMS)	CURRENT RATING MAXIMUM (AMPS)	CURRENT DC (AMPS)	INCREMENTAL
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**Physical Parameters**

	Inches	Millimeters
Length	0.900 Max.	22.86 Max.
Diameter	0.455 Max.	11.55 Max.
Lead Size		
AWG #20 TCW	0.032 $\pm$ 0.002	0.813 $\pm$ 0.05
Lead Length	1.10 Min.	27.94 Min.

**Operating Temperature**

-55°C to +125°C  
-55°C to +85°C @ full rated current

**Current Rating at 85°C Ambient** 40°C Rise

**Maximum Power Dissipation at 85°C** 0.70 W

**Dielectric Withstanding Voltage** 2500 V RMS

**Incremental Current** The current which will decrease the inductance by approximately 5%.

**Inductance Measurement** Inductance is measured @ 1 kHz with 1 VAC open circuit and 0 dc bias.

**Inductance Tolerance** Tolerance is specified by suffixing an alpha character to the part number as follows: J = 5%, K = 10%, and L = 15%. Units are normally supplied to the tolerance indicated in table.

**High Saturation Bobbin** allows for high inductance with low DCR.

**High Resistivity** Core offers very high parallel resistance, resulting in maximum coil performance.

**4590 Marking** DELEVAN; inductance; tolerance.

**4590R Marking** DELEVAN; 4590R; dash number with tolerance letter.

Example: 4590-393K

DELEVAN  
39  $\mu$ H  
 $\pm 10\%$

Example: 4590R-393K

DELEVAN  
4590R  
393K

**Packaging** Bulk only

SERIES 4590 FERRITE CORE					
-392K	3.9	0.007	9.75	8.2	
-472K	4.7	0.008	9.11	7.5	
-562K	5.6	0.011	7.77	6.9	
-682K	6.8	0.011	7.60	6.3	
-822K	8.2	0.013	7.15	5.7	
-103K	10.0	0.016	6.44	5.2	
-123K	12.0	0.018	6.07	4.7	
-153K	15.0	0.020	5.76	4.3	
-183K	18.0	0.022	5.49	3.9	
-223K	22.0	0.024	5.26	3.5	
-273K	27.0	0.025	5.15	3.2	
-333K	33.0	0.028	4.87	2.9	
-393K	39.0	0.031	4.63	2.7	
-473K	47.0	0.034	4.45	2.5	
-563K	56.0	0.043	3.93	2.3	
-683K	68.0	0.059	3.355	2.1	
-823K	82.0	0.066	3.175	1.9	
-104K	100	0.084	2.815	1.7	
-124K	120	0.113	2.43	1.6	
-154K	150	0.129	2.27	1.4	
-184K	180	0.150	2.105	1.3	
-224K	220	0.162	2.025	1.2	
-274K	270	0.226	1.715	1.1	
-334K	330	0.257	1.61	0.95	
-394K	390	0.288	1.52	0.88	
-474K	470	0.393	1.30	0.80	
-564K	560	0.504	1.15	0.74	
-684K	680	0.570	1.08	0.67	
-824K	820	0.643	1.015	0.61	
-105K	1000	0.844	0.89	0.56	
-125K	1200	0.977	0.825	0.51	
-155K	1500	1.18	0.75	0.46	
-185K	1800	1.50	0.665	0.42	
-225K	2200	1.76	0.615	0.38	
-275K	2700	2.13	0.56	0.34	
-335K	3300	2.53	0.51	0.31	
-395K	3900	2.84	0.48	0.29	
-475K	4700	3.79	0.415	0.26	
-565K	5600	4.24	0.395	0.24	
-685K	6800	5.75	0.34	0.22	
-825K	8200	6.44	0.32	0.20	
-106K	10000	7.30	0.30	0.18	
-126K	12000	9.34	0.265	0.17	
-156K	15000	10.7	0.25	0.15	
-186K	18000	14.8	0.21	0.14	
-226K	22000	18.0	0.19	0.12	
-276K	27000	22.7	0.17	0.11	
-336K	33000	25.7	0.16	0.10	
-396K	39000	29.7	0.15	0.09	
-476K	47000	33.7	0.14	0.09	
-566K	56000	38.0	0.13	0.08	
-686K	68000	52.8	0.11	0.07	
-826K	82000	67.3	0.10	0.07	
-107K	100000	76.0	0.09	0.06	

Optional Tolerances: J = 5% L = 15%

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

For surface finish information, refer to [www.delevanfinishes.com](http://www.delevanfinishes.com)