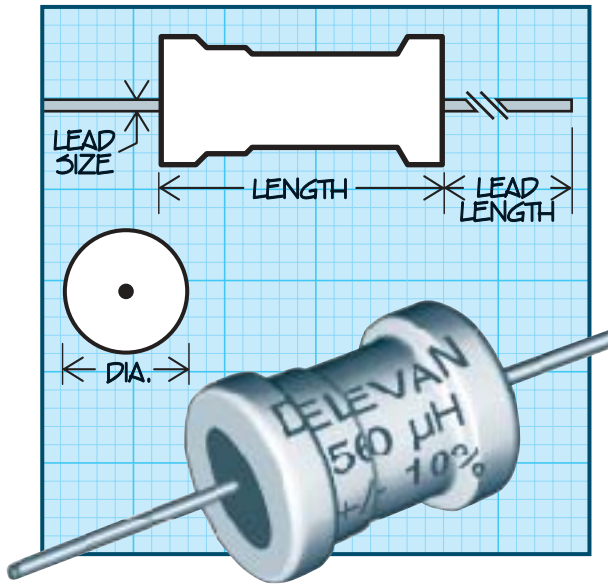


# Series 4590

## High Current Filter Inductors



**Mechanical Configuration** Ferrite Bobbin protected with a flame retardant polyolefin sleeve.

### 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 ± 0.002	0.813 ± 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

**Inductance Measurement** Inductance is measured @ 1KHz 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.

**Marking** Parts are printed with DELEVAN, Inductance Value and Tolerance.

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

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

**Packaging** Bulk only

PART NUMBER	NOMINAL INDUCTANCE (µH) ±10%	DC RESISTANCE MAXIMUM (OHMS)	CURRENT RATING MAXIMUM (AMPS)	INCREMENTAL CURRENT DC (AMPS)
<b>SERIES 4590</b>				
4590-392K	3.9	0.007	9.75	8.2
4590-472K	4.7	0.008	9.11	7.5
4590-562K	5.6	0.011	7.77	6.9
4590-682K	6.8	0.011	7.60	6.3
4590-822K	8.2	0.013	7.15	5.7
4590-103K	10.0	0.016	6.44	5.2
4590-123K	12.0	0.018	6.07	4.7
4590-153K	15.0	0.020	5.76	4.3
4590-183K	18.0	0.022	5.49	3.9
4590-223K	22.0	0.024	5.26	3.5
4590-273K	27.0	0.025	5.15	3.2
4590-333K	33.0	0.028	4.87	2.9
4590-393K	39.0	0.031	4.63	2.7
4590-473K	47.0	0.034	4.45	2.5
4590-563K	56.0	0.043	3.93	2.3
4590-683K	68.0	0.059	3.355	2.1
4590-823K	82.0	0.066	3.175	1.9
4590-104K	100	0.084	2.815	1.7
4590-124K	120	0.113	2.43	1.6
4590-154K	150	0.129	2.27	1.4
4590-184K	180	0.150	2.105	1.3
4590-224K	220	0.162	2.025	1.2
4590-274K	270	0.226	1.715	1.1
4590-334K	330	0.257	1.61	0.95
4590-394K	390	0.288	1.52	0.88
4590-474K	470	0.393	1.30	0.80
4590-564K	560	0.504	1.15	0.74
4590-684K	680	0.570	1.08	0.67
4590-824K	820	0.643	1.015	0.61
4590-105K	1000	0.844	0.89	0.56
4590-125K	1200	0.977	0.825	0.51
4590-155K	1500	1.18	0.75	0.46
4590-185K	1800	1.50	0.665	0.42
4590-225K	2200	1.76	0.615	0.38
4590-275K	2700	2.13	0.56	0.34
4590-335K	3300	2.53	0.51	0.31
4590-395K	3900	2.84	0.48	0.29
4590-475K	4700	3.79	0.415	0.26
4590-565K	5600	4.24	0.395	0.24
4590-685K	6800	5.75	0.34	0.22
4590-825K	8200	6.44	0.32	0.20
4590-106K	10000	7.30	0.30	0.18
4590-126K	12000	9.34	0.265	0.17
4590-156K	15000	10.7	0.25	0.15
4590-186K	18000	14.8	0.21	0.14
4590-226K	22000	18.0	0.19	0.12
4590-276K	27000	22.7	0.17	0.11
4590-336K	33000	25.7	0.16	0.10
4590-396K	39000	29.7	0.15	0.09
4590-476K	47000	33.7	0.14	0.09
4590-566K	56000	38.0	0.13	0.08
4590-686K	68000	52.8	0.11	0.07
4590-826K	82000	67.3	0.10	0.07
4590-107K	100000	76.0	0.09	0.06
<b>Optional Tolerances: J = 5% L = 15%</b>				
<b>Incremental Current</b> is the current which will decrease the inductance by approximately 5%.				

POWER INDUCTORS