

305 series

power inductors

Product Code	Inductance μ H (min) no Load	Max Current, amps (RMS)	Current, Idc 15% L drop	Current, Idc 30% L drop	Current, Idc 50% L drop	Current, Idc 60% L drop	DCR (mOhms)
305-1	15.5	8	2.6	4.7	8.9	12.3	41
305-2	65.7	8	2.5	4.5	8.5	11.7	97
305-3	9.2	11	3.4	6.1	11.5	16.0	20
305-4	46.1	11	3.0	5.3	10.1	14.0	50
305-5	118.5	11	2.7	4.8	9.2	12.7	97
305-6	342.5	11	2.6	4.6	8.8	12.2	169
305-7	5.2	14	4.5	8.1	15.4	21.3	11
305-8	27.9	14	3.8	6.9	13.0	18.0	25
305-9	69.9	14	3.5	6.3	11.9	16.6	48
305-10	207.2	14	3.3	6.0	11.3	15.7	86
305-11	571.7	14	3.9	6.9	13.0	18.1	167
305-12	2.3	20	6.8	12.2	23.0	32.0	5
305-13	15.7	20	5.1	9.1	17.3	24.0	12
305-14	46.3	20	4.3	7.7	14.7	20.4	25
305-15	135.8	20	4.1	7.4	14.0	19.4	43
305-16	401.3	20	4.6	8.2	15.5	21.6	82
305-17	1.1	26	9.7	17.4	32.9	45.7	3
305-18	8.0	26	7.2	12.8	24.2	33.7	6
305-19	25.6	26	5.8	10.4	19.7	27.4	13
305-20	83.5	26	5.3	9.4	17.8	24.7	22
305-21	240.5	26	5.9	10.6	20.1	27.9	42
305-22	0.6	39	13.6	24.3	46.1	64.0	2
305-23	4.3	39	9.8	17.4	33.1	45.9	3
305-24	16.7	39	7.2	12.9	24.4	33.9	6
305-25	50.2	39	6.8	12.1	23.0	31.9	11
305-26	150.8	39	7.5	13.4	25.3	35.2	21
305-27	2.3	50	13.5	24.0	45.4	63.1	2
305-28	8.5	50	10.1	18.1	34.2	47.5	3
305-29	27.6	50	9.2	16.3	30.9	43.0	5
305-30	81.8	50	10.2	18.1	34.4	47.7	10

PRODUCT DESCRIPTION

West Coast Magnetics' 305 series power inductors are designed to handle high levels of current and are designed for 200°C operation. Using high temperature materials, these power inductors can withstand the full rated RMS current on a continuous basis. All materials are 200°C rated and suitable for high temperature use. The toroidal design places this component in a very cost competitive position and features low EMI as well.

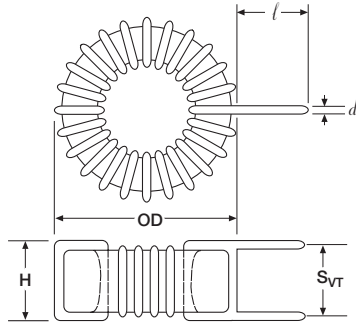
FEATURES - BENEFITS

Low EMI – High current rating – Low cost – Suitable for high temperature use

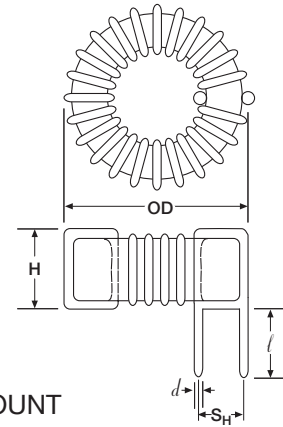


Please specify Vertical or Horizontal Mount with your order.

Dimensions: $\frac{\text{Inches}}{\text{cm}}$



VERTICAL MOUNT



HORIZONTAL MOUNT

Product Code	Nom OD	Nom H	S _H	d	l	S _{VT}
305-1	.500 1.27	.215 .546	.149 .378	.023 .058	.200 .51	.202 .51
305-2	.757 1.92	.316 .803	.203 .516	.023 .058	.250 .64	.293 .115
305-3	.525 1.33	.240 .610	.154 .391	.028 .071	.200 .51	.207 .081
305-4	.763 1.94	.329 .836	.208 .528	.028 .071	.250 .64	.298 .117
305-5	1.03 2.62	.379 .963	.239 .607	.028 .071	.300 .76	.360 .142
305-6	1.40 3.56	.525 1.33	.313 .795	.028 .071	.375 .95	.485 .191
305-7	.538 1.37	.250 .64	.161 .409	.035 .089	.200 .51	.214 .544
305-8	.786 2.00	.343 .87	.215 .546	.035 .089	.250 .64	.305 .775
305-9	1.05 2.67	.400 1.02	.246 .546	.035 .089	.300 .76	.367 .932
305-10	1.415 3.61	.540 1.37	.320 .813	.035 .089	.375 .95	.492 1.25
305-11	1.975 5.02	.820 2.08	.500 1.27	.035 .089	.500 1.27	.765 1.94
305-12	.560 1.42	.280 .71	.170 .43	.044 .112	.200 .51	.223 .567
305-13	.800 2.03	.358 .91	.224 .569	.044 .112	.250 .64	.340 .864
305-14	1.061 2.69	.415 1.05	.255 .648	.044 .112	.300 .76	.376 .955
305-15	1.435 3.64	.555 1.41	.329 .835	.044 .112	.375 .95	.501 1.27

Product Code	Nom OD	Nom H	S _H	d	l	S _{VT}
305-16	1.995 5.07	.835 2.12	.509 1.29	.044 .112	.500 1.27	.774 1.97
305-17	.580 1.47	.302 .767	.181 .460	.055 .140	.200 .51	.234 .594
305-18	.865 2.20	.402 1.02	.235 .597	.055 .140	.250 .64	.325 .826
305-19	1.115 2.83	.458 1.16	.266 .676	.055 .140	.300 .76	.387 .983
305-20	1.460 3.71	.574 1.46	.340 .864	.055 .140	.375 .95	.512 1.30
305-21	2.025 5.14	.854 2.17	.520 1.32	.055 .140	.500 1.27	.785 1.99
305-22	.627 1.59	.338 .858	.194 .493	.068 .173	.200 .51	.247 .627
305-23	.910 2.31	.440 1.12	.248 .630	.068 .173	.250 .64	.338 .859
305-24	1.130 2.87	.471 1.20	.279 .709	.068 .173	.300 .76	.400 10.2
305-25	1.480 3.76	.605 1.54	.353 .897	.068 .173	.375 .95	.525 1.33
305-26	2.040 5.18	.890 2.26	.533 1.35	.068 .173	.500 1.27	.798 2.03
305-27	.967 2.46	.476 1.21	.266 .676	.086 .218	.250 .64	.356 .904
305-28	1.247 3.17	.517 1.31	.297 .754	.086 .218	.300 .76	.418 1.06
305-29	1.572 3.99	.661 1.68	.371 .942	.086 .218	.375 .95	.543 1.30
305-30	2.152 5.47	.958 2.43	.551 1.40	.086 .218	.500 1.27	.816 2.07