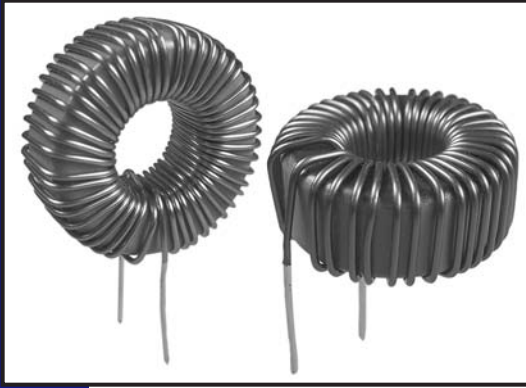


POWER INDUCTORS

WCM 305 Series



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

DESIGN CONSTANTS

Part Number	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

Please specify Vertical or Horizontal Mount with your order.

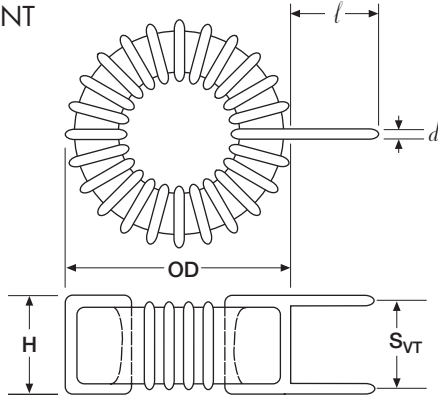


POWER INDUCTORS

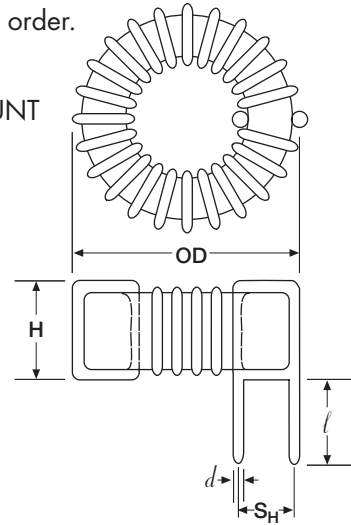
WCM 305 Series

Dimensions: $\frac{\text{Inches}}{\text{cm}}$ Please specify Vertical or Horizontal Mount with your order.

VERTICAL MOUNT



HORIZONTAL MOUNT



Part Number	Nom OD	Nom H	S _H	d	l	S _{VT}	Part Number	Nom OD	Nom H	S _H	d	l	S _{VT}
305-1	$\frac{.500}{1.27}$	$\frac{.215}{.546}$	$\frac{.149}{.378}$	$\frac{.023}{.058}$	$\frac{.200}{.51}$	$\frac{.202}{.51}$	305-16	$\frac{1.995}{5.07}$	$\frac{.835}{2.12}$	$\frac{.509}{1.29}$	$\frac{.044}{.112}$	$\frac{.500}{1.27}$	$\frac{.774}{1.97}$
305-2	$\frac{.757}{1.92}$	$\frac{.316}{.803}$	$\frac{.203}{.516}$	$\frac{.023}{.058}$	$\frac{.250}{.64}$	$\frac{.293}{.115}$	305-17	$\frac{.580}{1.47}$	$\frac{.302}{.767}$	$\frac{.181}{.460}$	$\frac{.055}{.140}$	$\frac{.200}{.51}$	$\frac{.234}{.594}$
305-3	$\frac{.525}{1.33}$	$\frac{.240}{.610}$	$\frac{.154}{.391}$	$\frac{.028}{.071}$	$\frac{.200}{.51}$	$\frac{.207}{.081}$	305-18	$\frac{.865}{2.20}$	$\frac{.402}{1.02}$	$\frac{.235}{.597}$	$\frac{.055}{.140}$	$\frac{.250}{.64}$	$\frac{.325}{.826}$
305-4	$\frac{.763}{1.94}$	$\frac{.329}{.836}$	$\frac{.208}{.528}$	$\frac{.028}{.071}$	$\frac{.250}{.64}$	$\frac{.298}{.117}$	305-19	$\frac{1.115}{2.83}$	$\frac{.458}{1.16}$	$\frac{.266}{.676}$	$\frac{.055}{.140}$	$\frac{.300}{.76}$	$\frac{.387}{.983}$
305-5	$\frac{1.03}{2.62}$	$\frac{.379}{.963}$	$\frac{.239}{.607}$	$\frac{.028}{.071}$	$\frac{.300}{.76}$	$\frac{.360}{.142}$	305-20	$\frac{1.460}{3.71}$	$\frac{.574}{1.46}$	$\frac{.340}{.864}$	$\frac{.055}{.140}$	$\frac{.375}{.95}$	$\frac{.512}{1.30}$
305-6	$\frac{1.40}{3.56}$	$\frac{.525}{1.33}$	$\frac{.313}{.795}$	$\frac{.028}{.071}$	$\frac{.375}{.95}$	$\frac{.485}{.191}$	305-21	$\frac{2.025}{5.14}$	$\frac{.854}{2.17}$	$\frac{.520}{1.32}$	$\frac{.055}{.140}$	$\frac{.500}{1.27}$	$\frac{.785}{1.99}$
305-7	$\frac{.538}{1.37}$	$\frac{.250}{.64}$	$\frac{.161}{.409}$	$\frac{.035}{.089}$	$\frac{.200}{.51}$	$\frac{.214}{.544}$	305-22	$\frac{.627}{1.59}$	$\frac{.338}{.858}$	$\frac{.194}{.493}$	$\frac{.068}{.173}$	$\frac{.200}{.51}$	$\frac{.247}{.627}$
305-8	$\frac{.786}{2.00}$	$\frac{.343}{.87}$	$\frac{.215}{.546}$	$\frac{.035}{.089}$	$\frac{.250}{.64}$	$\frac{.305}{.775}$	305-23	$\frac{.910}{2.31}$	$\frac{.440}{1.12}$	$\frac{.248}{.630}$	$\frac{.068}{.173}$	$\frac{.250}{.64}$	$\frac{.338}{.859}$
305-9	$\frac{1.05}{2.67}$	$\frac{.400}{1.02}$	$\frac{.246}{.546}$	$\frac{.035}{.089}$	$\frac{.300}{.76}$	$\frac{.367}{.932}$	305-24	$\frac{1.130}{2.87}$	$\frac{.471}{1.20}$	$\frac{.279}{.709}$	$\frac{.068}{.173}$	$\frac{.300}{.76}$	$\frac{.400}{10.2}$
305-10	$\frac{1.415}{3.61}$	$\frac{.540}{1.37}$	$\frac{.320}{.813}$	$\frac{.035}{.089}$	$\frac{.375}{.95}$	$\frac{.492}{1.25}$	305-25	$\frac{1.480}{3.76}$	$\frac{.605}{1.54}$	$\frac{.353}{.897}$	$\frac{.068}{.173}$	$\frac{.375}{.95}$	$\frac{.525}{1.33}$
305-11	$\frac{1.975}{5.02}$	$\frac{.820}{2.08}$	$\frac{.500}{1.27}$	$\frac{.035}{.089}$	$\frac{.500}{1.27}$	$\frac{.765}{1.94}$	305-26	$\frac{2.040}{5.18}$	$\frac{.890}{2.26}$	$\frac{.533}{1.35}$	$\frac{.068}{.173}$	$\frac{.500}{1.27}$	$\frac{.798}{2.03}$
305-12	$\frac{.560}{1.42}$	$\frac{.280}{.71}$	$\frac{.170}{.43}$	$\frac{.044}{.112}$	$\frac{.200}{.51}$	$\frac{.223}{.567}$	305-27	$\frac{.967}{2.46}$	$\frac{.476}{1.21}$	$\frac{.266}{.676}$	$\frac{.086}{.218}$	$\frac{.250}{.64}$	$\frac{.356}{.904}$
305-13	$\frac{.800}{2.03}$	$\frac{.358}{.91}$	$\frac{.224}{.569}$	$\frac{.044}{.112}$	$\frac{.250}{.64}$	$\frac{.340}{.864}$	305-28	$\frac{1.247}{3.17}$	$\frac{.517}{1.31}$	$\frac{.297}{.754}$	$\frac{.086}{.218}$	$\frac{.300}{.76}$	$\frac{.418}{1.06}$
305-14	$\frac{1.061}{2.69}$	$\frac{.415}{1.05}$	$\frac{.255}{.648}$	$\frac{.044}{.112}$	$\frac{.300}{.76}$	$\frac{.376}{.955}$	305-29	$\frac{1.572}{3.99}$	$\frac{.661}{1.68}$	$\frac{.371}{.942}$	$\frac{.086}{.218}$	$\frac{.375}{.95}$	$\frac{.543}{1.30}$
305-15	$\frac{1.435}{3.64}$	$\frac{.555}{1.41}$	$\frac{.329}{.835}$	$\frac{.044}{.112}$	$\frac{.375}{.95}$	$\frac{.501}{1.27}$	305-30	$\frac{2.152}{5.47}$	$\frac{.958}{2.43}$	$\frac{.551}{1.40}$	$\frac{.086}{.218}$	$\frac{.500}{1.27}$	$\frac{.816}{2.07}$

