



west coast  
magnetics

## 306 series

### power inductors

#### PRODUCT DESCRIPTION

West Coast Magnetics' 306 series high current inductors are designed to meet the most demanding requirements. These inductors will support high levels of ripple at frequencies up to 500 kHz. West Coast Magnetics' 306 series power inductors are conservatively rated from 16 to 75 amps DC or RMS on a continuous duty basis. Inductor values range from 26 to 590 microhenries.

#### FEATURES & BENEFITS

Available with patented Foil Technology for high ripple, high frequency applications - DC or RMS current to 75 amps - Inductance to 590 microhenries - High ripple at frequencies to 500 kHz

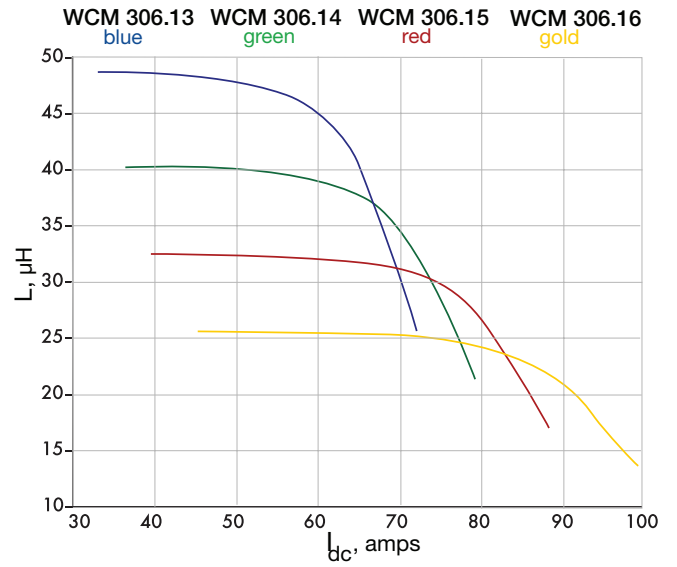
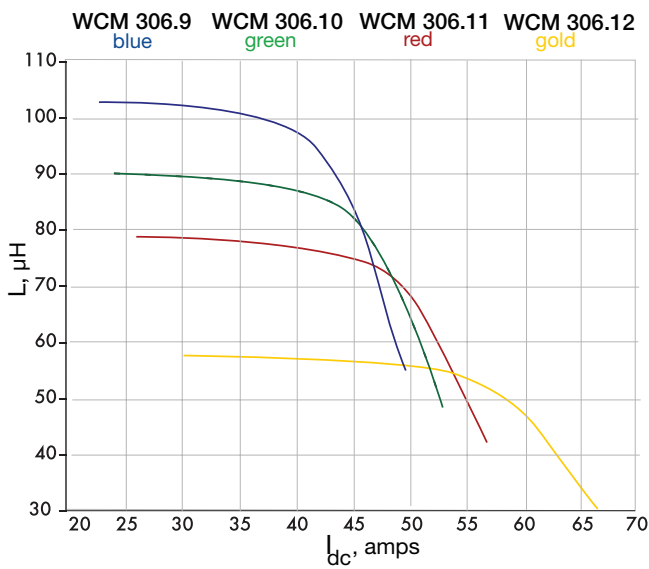
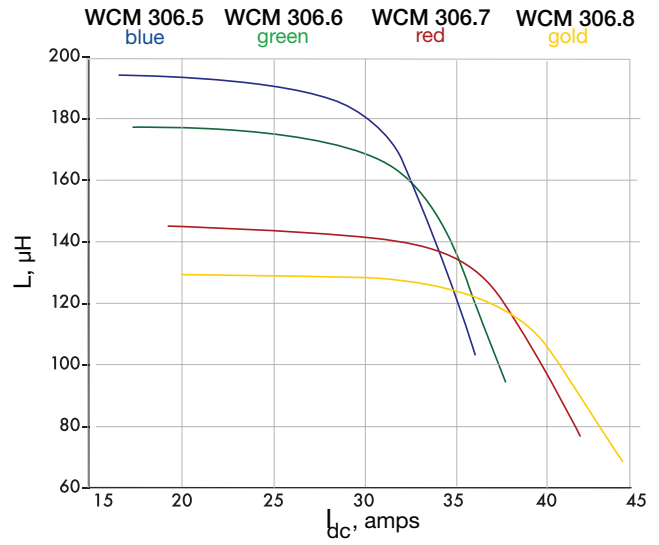
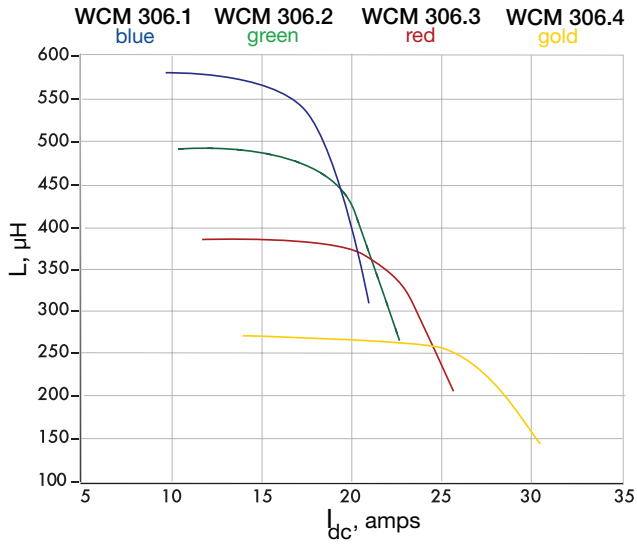
#### SHAPED FOIL TECHNOLOGY™

West Coast Magnetics' exclusive SHAPED FOIL TECHNOLOGY™ combines the low DCR of a foil winding, with the low AC winding resistance of litz wire. For many high ripple, high frequency applications it has significantly lower winding losses than any litz or solid wire winding. Check with WCM's engineering department to see if it is right for your application.

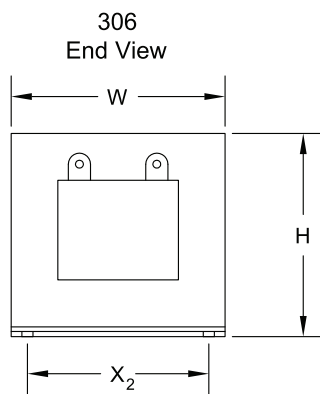
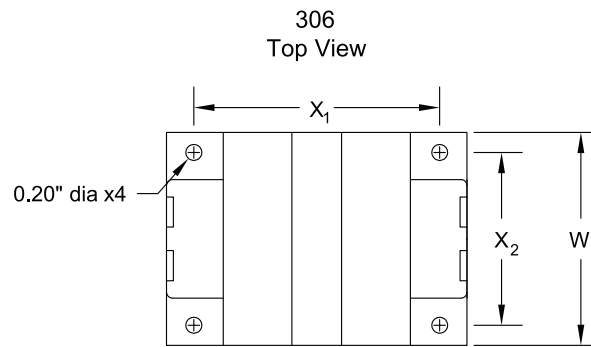
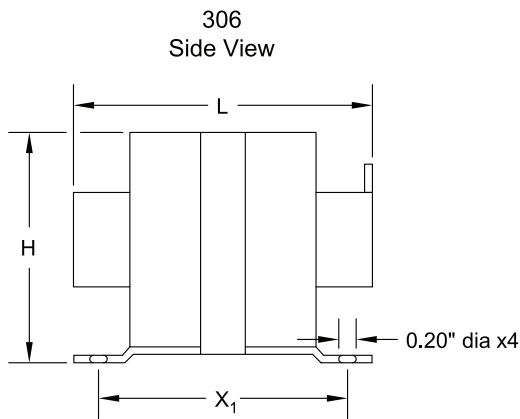
Product Code	Inductance ( $\mu H$ )	DCR (mOhms)	$I_{rms}$ (amps) INPUT	Weight (kg)
306-1	582	15.98	15.0	1.0
306-2	494	12.61	17.0	1.0
306-3	388	9.77	19.0	1.0
306-4	273	6.56	23.0	1.0
306-5	195	4.40	27.0	1.0
306-6	178	3.92	28.0	1.0
306-7	146	3.20	31.0	1.0
306-8	131	2.80	33.0	1.0
306-9	103	2.14	37.0	1.0
306-10	91	1.89	39.0	1.0
306-11	79	1.63	42.0	1.0
306-12	58	1.25	48.0	1.0
306-13	49	1.03	55.0	1.0
306-14	40	0.81	58.0	1.0
306-15	33	0.70	66.0	1.0
306-16	26	0.55	74.0	1.0



## power inductors



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



Product Code	W	H	L	X <sub>1</sub>	X <sub>2</sub>
306	$\frac{2.85}{7.24}$	$\frac{3.0}{7.62}$	$\frac{3.05}{7.75}$	$\frac{1.70}{4.32}$	$\frac{2.10}{5.33}$