

WCM323 Series

Power Inductors

Product Description

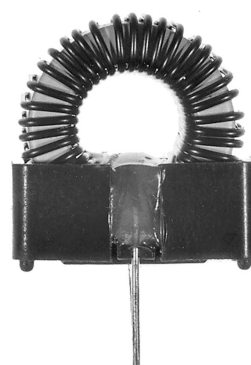
West Coast Magnetics' 323 series toroidal inductors are designed for switching power applications at frequencies up to 500 kHz. This inductor has an outstanding current rating for its size, high reliability, long service life and ability to handle very high peak currents without saturating. The continuous service temperature rating is 200° C.

Features and Benefits

200° C rating – Low EMI due to toroidal design

Engineering Data

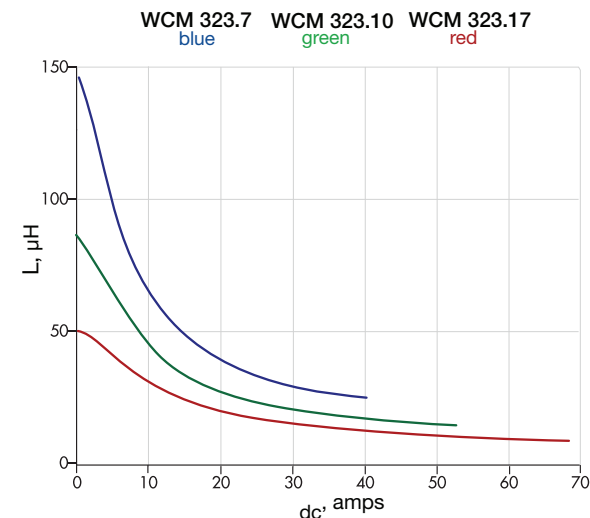
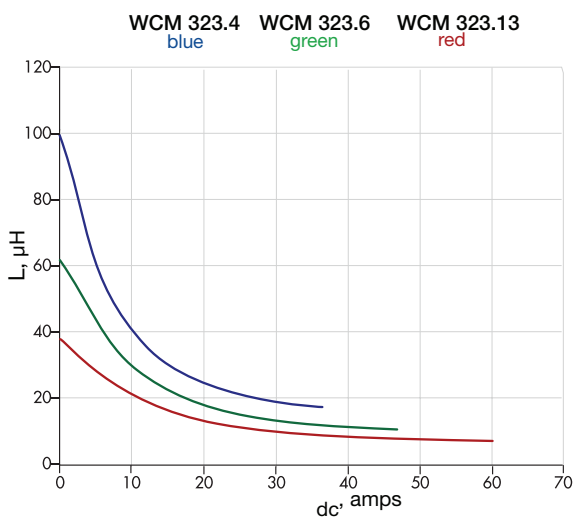
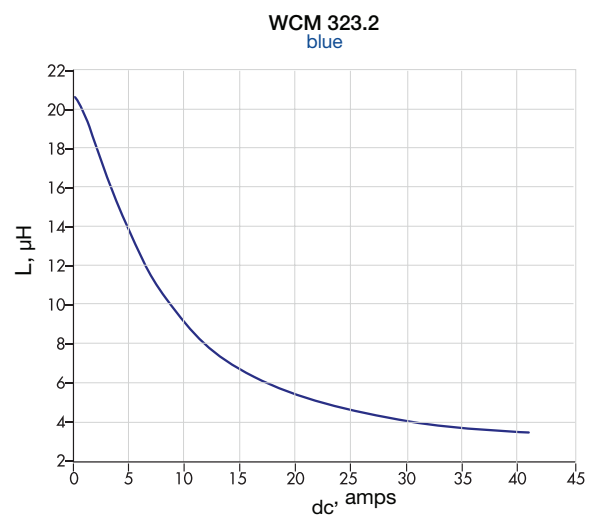
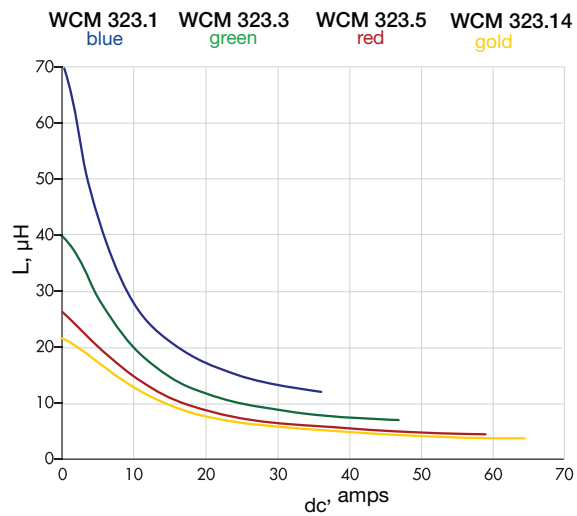
Product Code	Minimum Inductance (μH) no DC	Nominal DCR (mOhms) @20°C	Rated RMS Current (amps)	Mounted Coil Size Code	Bare Coil Size Code (Vertical)	Bare Coil Size Code (Vertical)	Lead Diameter (inches)
WCM323-01	60.0	79	4.5	KM-02	BV-02	BH-02	0.023
WCM323-02	17.9	38	4.5	KM-01	BV-01	BH-01	0.023
WCM323-03	34.3	60	4.5	KM-02	BV-02	BH-02	0.023
WCM323-04	86.5	99	4.5	KM-03	BV-03	BH-03	0.023
WCM323-05	22.3	31	6.0	KM-02	BV-02	BH-02	0.028
WCM323-06	53.0	50	6.0	KM-03	BV-03	BH-03	0.028
WCM323-07	124.5	88	6.0	KM-04	BV-04	BH-04	0.028
WCM323-08	184.7	107	6.0	KM-05	BV-05	BH-05	0.028
WCM323-09	254.9	129	6.0	KM-05	BV-07	BH-07	0.028
WCM323-10	72.8	43	8.0	KM-04	BV-04	BH-04	0.035
WCM323-11	143.6	53	8.0	KM-05	BV-05	BH-05	0.035
WCM323-12	154.6	64	8.0	KM-05	BV-07	BH-07	0.035
WCM323-13	32.1	25	8.0	KM-03	BV-03	BH-03	0.035
WCM323-14	18.9	19	8.0	KM-02	BV-02	BH-02	0.035



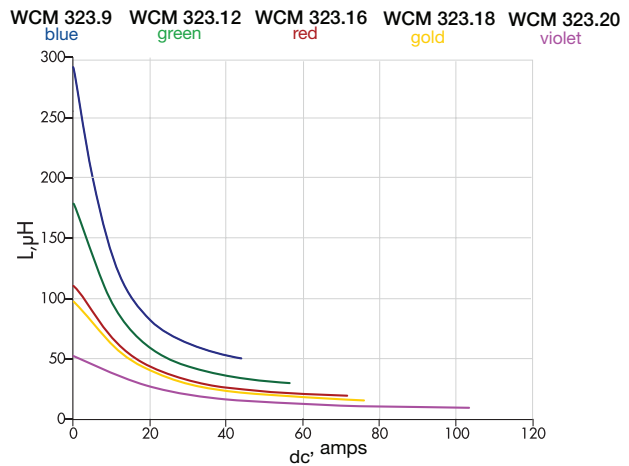
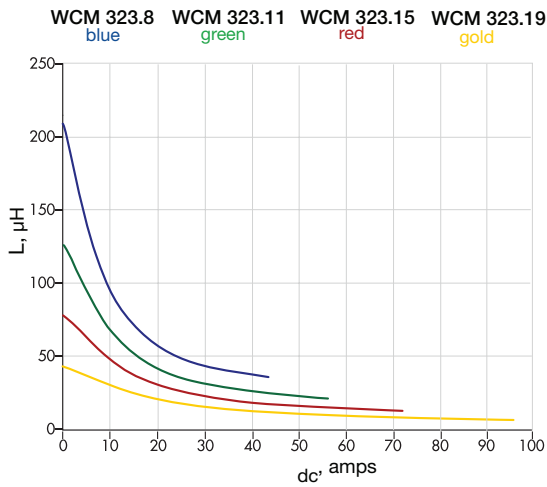
Engineering Data Continued

Product Code	Minimum Inductance (μ H) no DC	Nominal DCR (mOhms) @20°C	Rated RMS Current (amps)	Mounted Coil Size Code	Bare Coil Size Code (Vertical)	Bare Coil Size Code (Vertical)	Lead Diameter (inches)
WCM323-15	68.8	27	13.0	KM-05	BV-05	BH-05	0.044
WCM323-16	94.7	32	13.0	KM-05	BV-07	BH-07	0.044
WCM323-17	43.1	22	13.0	KM-04	BV-04	BH-04	0.044
WCM323-18	84.5	20	17.0	KM-05	BV-07	BH-07	0.055
WCM323-19	38.7	13	17.0	KM-05	BV-05	BH-05	0.055
WCM323-20	45.7	15	17.0	KM-05	BV-07	BH-07	0.055

Graphs WCM323 Series

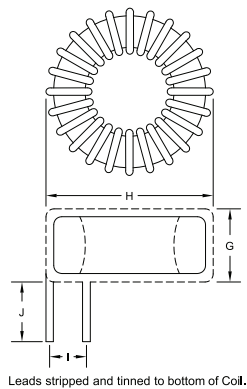


Graphs WCM323 Series Continued

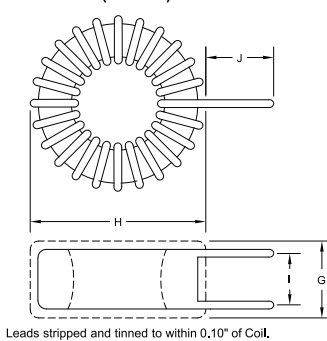


Schematics WCM305 Series

323 BARE COIL (Horizontal)



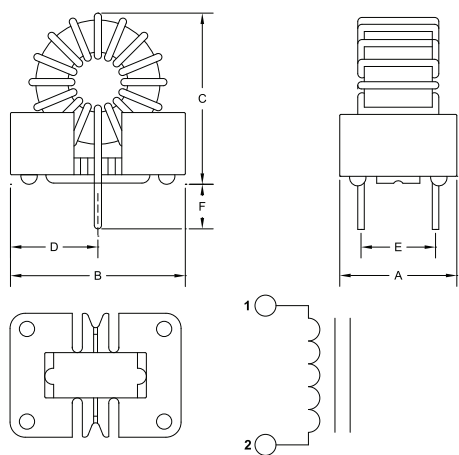
323 BARE COIL (Vertical)



V. Bare Coil Size Code	G*	H*	I	J
BV-01	0.280"	0.530"	0.182"	0.500"
BV-02	0.370"	0.790"	0.262"	0.500"
BV-03	0.400"	0.810"	0.285"	0.500"
BV-04	0.550"	0.930"	0.419"	0.500"
BV-05	0.530"	1.250"	0.367"	0.500"
BV-06	0.420"	0.840"	0.295"	0.500"
BV-07	0.650"	1.250"	0.492"	0.500"

H. Bare Coil Size Code	G*	H*	I	J
BH-01	0.280"	0.530"	0.274"	0.25"
BH-02	0.370"	0.790"	0.332"	0.25"
BH-03	0.400"	0.810"	0.395"	0.25"
BH-04	0.550"	0.930"	0.384"	0.25"
BH-05	0.530"	1.250"	0.385"	0.25"
BH-06	0.420"	0.840"	0.295"	0.25"
BH-07	0.650"	1.250"	0.585"	0.25"

323 MOUNTED COIL



Mounted Coil Size Code	A*	B*	C*	D	E	F
KM-01	0.340"	0.580"	0.650"	0.290"	0.220"	0.250"
KM-02	0.450"	0.650"	0.900"	0.325"	0.325"	0.250"
KM-03	0.400"	0.810"	0.395"	0.25"	0.325"	0.250"
KM-04	0.550"	0.930"	0.384"	0.25"	0.325"	0.250"
KM-05	0.530"	1.250"	0.385"	0.25"	0.325"	0.250"

Dimensions:

Inches
mm

Note:

Please specify vertical or horizontal mount with your order.

* Maximum dimension