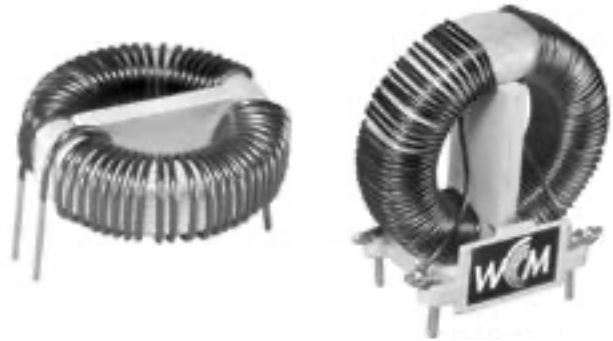


WCM502 Series

Common Mode Chokes

Product Description

West Coast Magnetics' 502 series common mode chokes are designed to attenuate common mode line noise. These common mode chokes can handle currents up to 25 amps and are available in vertical and horizontal mount packages. They provide a typical minimum 15 dB of attenuation from 50 kHz to 30 MHz. They feature interwinding isolation of 1500 Vac and 3mm clearance for safety requirements.



Features and Benefits

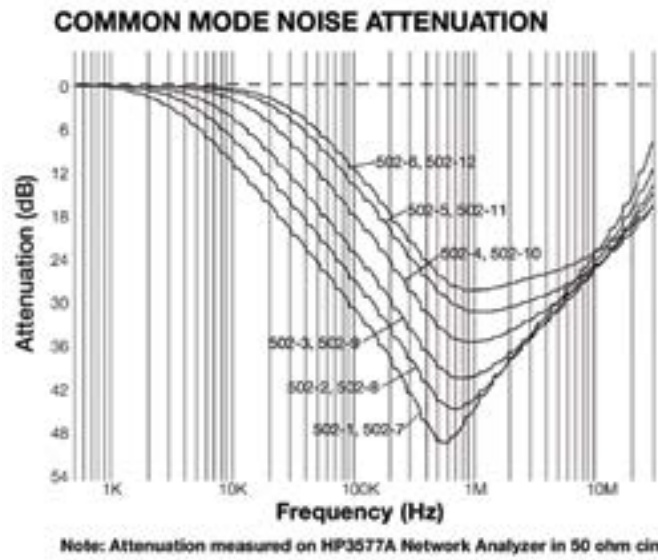
Peak current handling capability to 50 amps – RMS current to 25 amps –
Excellent noise attenuation – Horizontal and vertical packages

Engineering Data

Product Code	Minimum Inductance (mH)	Rated DC Current (amps) 40°C Temp Rise	Nominal Leakage Inductance (μH)	Nominal DCR (mOhms)	Interwinding Hypot (Vac)	Mount Style
WCM502-01	6.40	4.5	90	92.0	1500	Horizontal
WCM502-02	3.70	6.0	55	45.0	1500	Horizontal
WCM502-03	2.30	8.5	36	22.0	1500	Horizontal
WCM502-04	1.30	12.0	20	11.0	1500	Horizontal
WCM502-05	0.82	17.0	14	5.7	1500	Horizontal
WCM502-06	0.52	25.0	8	2.9	1500	Horizontal
WCM502-07	6.40	4.5	90	92.0	1500	Vertical
WCM502-08	3.70	6.0	55	45.0	1500	Vertical
WCM502-09	2.30	8.5	36	22.0	1500	Vertical
WCM502-10	1.30	12.0	20	11.0	1500	Vertical
WCM502-11	0.82	17.0	14	5.7	1500	Vertical
WCM502-12	0.52	25.0	8	2.9	1500	Vertical

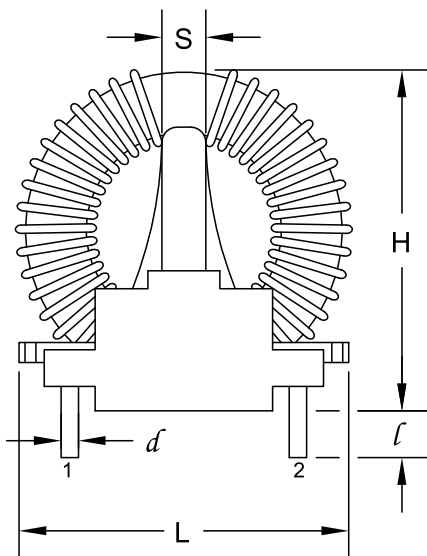


Graphs WCM502 Series

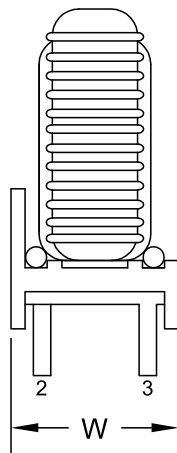


Schematics WCM502 Series

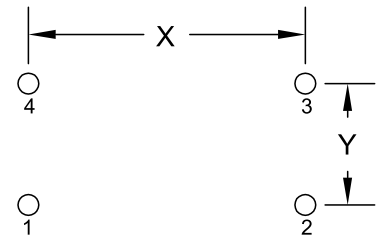
502-7, -8, -9, -10, -11, -12
Side View



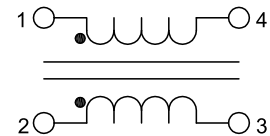
502-7, -8, -9, -10, -11, -12
Side View



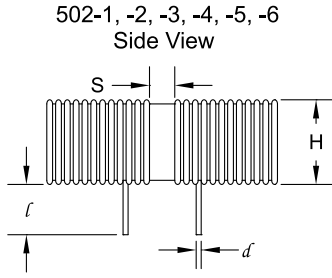
502-7, -8, -9, -10, -11, -12
Footprint



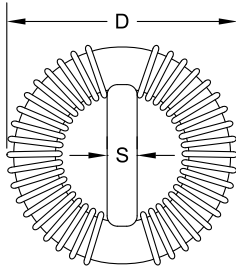
502-7, -8, -9, -10, -11, -12
Schematic



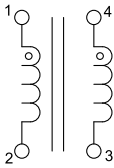
Schematics WCM502 Series Continued



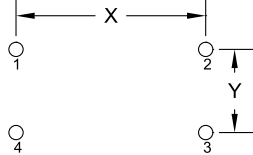
502-1, -2, -3, -4, -5, -6
Top View



502-1, -2, -3, -4, -5, -6
Schematic



502-1, -2, -3, -4, -5, -6
Footprint



Product Code	H	L	W	D	s	d	l	X	Y
WCM502-01	$\frac{0.52}{13.2}$	NA	NA	$\frac{1.56}{39.6}$	$\frac{0.12}{3.0}$	$\frac{0.028}{0.71}$	$\frac{0.25}{6.4}$	$\frac{1.4}{35.6}$	$\frac{0.5}{12.7}$
WCM502-02	$\frac{0.52}{13.2}$	NA	NA	$\frac{1.56}{39.6}$	$\frac{0.12}{3.0}$	$\frac{0.035}{0.89}$	$\frac{0.25}{6.4}$	$\frac{1.4}{35.6}$	$\frac{0.5}{12.7}$
WCM502-03	$\frac{0.56}{14.2}$	NA	NA	$\frac{1.60}{40.6}$	$\frac{0.12}{3.0}$	$\frac{0.044}{1.1}$	$\frac{0.25}{6.4}$	$\frac{1.4}{35.6}$	$\frac{0.5}{12.7}$
WCM502-04	$\frac{0.60}{15.2}$	NA	NA	$\frac{1.63}{41.4}$	$\frac{0.12}{3.0}$	$\frac{0.05}{1.3}$	$\frac{0.25}{6.4}$	$\frac{1.4}{35.6}$	$\frac{0.5}{12.7}$
WCM502-05	$\frac{0.63}{16.0}$	NA	NA	$\frac{1.67}{42.4}$	$\frac{0.12}{3.0}$	$\frac{0.068}{1.7}$	$\frac{0.25}{6.4}$	$\frac{1.4}{35.6}$	$\frac{0.5}{12.7}$
WCM502-06	$\frac{0.67}{14.2}$	NA	NA	$\frac{1.70}{43.2}$	$\frac{0.12}{3.0}$	$\frac{0.085}{2.2}$	$\frac{0.25}{6.4}$	$\frac{1.4}{35.6}$	$\frac{0.5}{12.7}$
WCM502-07	$\frac{1.65}{41.9}$	$\frac{1.60}{40.6}$	$\frac{0.85}{21.6}$	NA	$\frac{0.12}{3.0}$	$\frac{0.05}{1.3}$	$\frac{0.20}{5.1}$	$\frac{0.9}{22.9}$	$\frac{0.6}{15.2}$
WCM502-08	$\frac{1.68}{42.7}$	$\frac{1.63}{41.4}$	$\frac{0.85}{21.6}$	NA	$\frac{0.12}{3.0}$	$\frac{0.05}{1.3}$	$\frac{0.20}{5.1}$	$\frac{0.9}{22.9}$	$\frac{0.6}{15.2}$
WCM502-09	$\frac{1.71}{43.4}$	$\frac{1.66}{42.2}$	$\frac{0.85}{21.6}$	NA	$\frac{0.12}{3.0}$	$\frac{0.05}{1.3}$	$\frac{0.20}{5.1}$	$\frac{0.9}{22.9}$	$\frac{0.6}{15.2}$
WCM502-10	$\frac{1.74}{44.2}$	$\frac{1.69}{42.2}$	$\frac{0.85}{21.6}$	NA	$\frac{0.12}{3.0}$	$\frac{0.05}{1.3}$	$\frac{0.20}{5.1}$	$\frac{0.9}{22.9}$	$\frac{0.6}{15.2}$
WCM502-11	$\frac{1.76}{44.7}$	$\frac{1.71}{43.4}$	$\frac{0.85}{21.6}$	NA	$\frac{0.12}{3.0}$	$\frac{0.068}{1.7}$	$\frac{0.25}{6.4}$	$\frac{0.9}{22.9}$	$\frac{0.6}{15.2}$
WCM502-12	$\frac{1.77}{45.0}$	$\frac{1.73}{43.9}$	$\frac{0.85}{21.6}$	NA	$\frac{0.12}{3.0}$	$\frac{0.085}{2.2}$	$\frac{0.25}{6.4}$	$\frac{0.9}{22.9}$	$\frac{0.6}{15.2}$

Dimensions:

$\frac{\text{Inches}}{\text{mm}}$

Note:

Please specify vertical or horizontal mount with your order.

*All materials of construction minimum Class B 130° C rated.