

High Current Common Mode Chokes - Series 41



- Up To 75 Amps Continuous Operation Capability
- Robust Construction
- Compact Design
- Thru-Hole Installation
- Very Low DCR



The Series 41 Common Mode Arrays filter common mode EMI in applications of up to 75 amps continuous operating current. The combination of very low DCR and small package size allows this choke to be used when high current and high temperature limits other common mode chokes. Additionally, the high resistivity of this ferrite material and robust product design, limits concerns about product placement experienced with conventional wire wound toroidal chokes. All versions are lead-free and RoHS compliant. Stable performance under load.

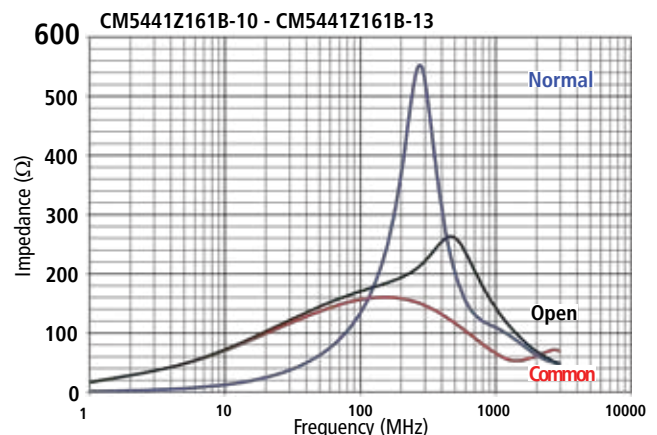
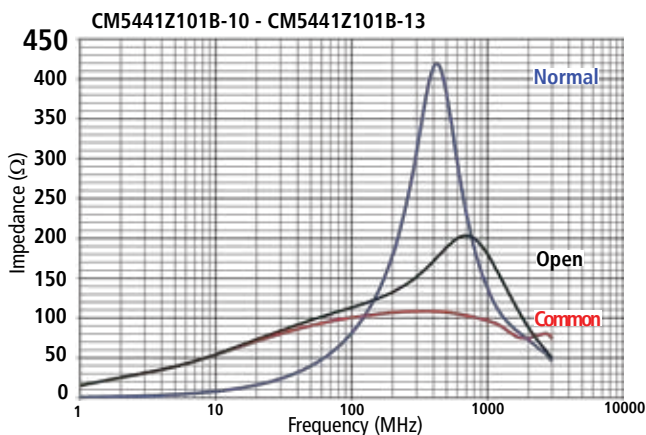
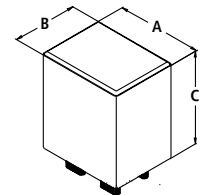
PART NUMBER SYSTEM EXAMPLE

CM	5441	Z	101	B	-10
Product Series Code	Part Size Code	Rated Current Code	Impedance Value Code	Packaging Code	Additional Description

Part Number	TYPICAL IMPEDANCE (Ω)				Typical Peak Impedance (Ω)	Typical Peak Impedance Frequency (MHz)	DCR MAX (Ω)	Rated I MAX (continuous) mA @ 25 C Temp Rise	Rated I MAX (continuous) mA @ 30 C Temp Rise
	Z @ 25 MHz	Z @ 100 MHz	Z @ 500 MHz	Z @ 1 GHz					
CM5441Z101B-10 CM5441Z101B-13*	79	100	188	183	204	682	0.0003	30000	75,000
CM5441Z161B-10 CM5441Z161B-13*	112	160	261	146	263	457	0.0003	30000	75,000

Part Number	A mm (inches)	B mm (inches)	C mm (inches)
CM5441Z101B-10 CM5441Z101B-13*	13.72 (0.540)	10.41 (0.410)	10.52 (0.414)
CM5441Z161B-10 CM5441Z161B-13*	13.72 (0.540)	10.41 (0.410)	15.24 (0.600)

* -13 Part # suffix represents extended thru hole lead length. See www.lairdtech.com for print details.



Normal / Differential Mode Impedance: The total impedance to the differential circuit.

Open Mode Impedance: The impedance measured through a single conductor of the common mode choke.

Common Mode Impedance: The impedance to EMI noise conducted in the same direction through two conductors.

See page 27 for testing methods diagrams

See Page 41 for Equivalent Circuit Examples and Explanations