

Nanocrystalline EMC Cores **IMPROVED**

EMC-X series nanocrystalline EMC cores produced using Cergen μ -Sphere™ technology have excellent performance to meet your needs for extremely wide bandwidth and high insertion loss.

Performance Characteristics:

- High B_s value, high saturation resistance
- High μ - Reduces component size
- Effective wide frequency bandwidth
- Stable temperature characteristics
- Excellent high-frequency impedance
- Low magnetostriction coefficient, low noise



Applications:

- Switching power supply
- Solar inverter
- Inverter drive/UPS
- Welding machine
- Electric vehicle
- Wind power
- Induction cooker
- Railway equipment

Cergen μ -Sphere™ Material

Material Composition	$Fe_{73,5} Cu_1 Nb_3 Si_{15,5} B_7$
Saturation Flux Density	1.2 T
Permeability	1000 - 200.000
Core Loss	< 110W / kg
Curie Temperature	600 °C

Market

Normal EMC cores for Drive application

P/N	Dimensions	AL nominal	
		10kHz	100kHz
A	63 x 50 x 30	23,3 - 46,6	> 11,0
B	100 x 80 x 30	22,5 - 45,0	> 11,2
C	160 x 130 x 30	20,9 - 45,0	> 10,5

Premium EMC cores for Drive application

P/N	Dimensions	AL nominal	
		10kHz	100kHz
D	63 x 50 x 30	23,3 - 46,6	> 15,1
E	100 x 80 x 30	22,5 - 45,0	> 14,6
F	160 x 130 x 30	20,9 - 45,0	> 13,5

Cergen EMC cores for Drive application

P/N	Dimensions	AL nominal	
		10kHz	100kHz
ES5240-0	63 x 50 x 30	23,3 - 46,6	> 17,5
ES5241-0	100 x 80 x 30	22,5 - 45,0	> 17,0
ES5242-0	160 x 130 x 30	20,9 - 45,0	> 15,5

Normal EMC cores for EMC application

P/N	Dimensions	AL nominal	
		10kHz	100kHz
A	30 x 20 x 10	23,3 - 46,6	> 10,0
B	40 x 25 x 15	22,5 - 45,0	> 17,3
C	50 x 40 x 20	20,9 - 45,0	> 10,0

Cergen EMC cores for EMC application

P/N	Dimensions	AL nominal	
		10kHz	100kHz
ES5243-0	30 x 20 x 10	40,0 - 80,0	> 12,0
ES5244-0	40 x 25 x 15	76,0 - 142,0	> 21,0
ES5245-0	50 x 40 x 20	40,0 - 80,0	> 13,0

Cergen