

# C-Cores Assemblies (inductors)

C-Cores assembly, for power applications... This technology applies to harsh environment, vibration and isolation requirements.



## Technical characteristics

Frequency	Up to several kHz
Insulation class	Up to 240°C
Molding	Epoxy, Polyurethane

## Examples of Inductors

Current (A)	Frequency (Hz)	Inductance	AC Current (App)	Material	Weight (kg)	L x W x H* (mm)	Specific features
5	400	600 μH	4 Apkpk @ 32 kHz	–	260g	60 x 40 x 30	Cold plate mounting [2]
2	400	4.8 mH	–	–	200g	50 x 40 x 30	Interphase inductor for civil aviation [3]
11	50-60	3 x 1 mH	0,8 A @ 20 kHz	Tri FeSi	2	100 x 74 x 80	Air forced cooling, Components UL, Antiflash finish
240	400	3 x 13 μH	60 A @ 8 kHz	Amorphous	4	160 x 150 x 65	High current
100	400	2 x 6 mH	–	Fe Co	5.5	200 x 180 x 80	
140	500	200 μH	28 Apk @ 500 Hz	Fe Si	7	150 x 132 x 175	Molded Smoothing choke, marine environment for engine room
90	50	3 x 90 μH	8.5 A @ 15 kHz	Amorphous	8	190 x 175 x 75	Waterproof for railway rollingstock
12	300	3 x 20 mH	0.25 A @ 10 kHz	Tri FeSi	13	263 x 108 x 182	Antiflash finish [1]
115	50-60	3 x 0.25 mH	19 A @ 24 kHz	Tri FeSi	46	410 x 135 x 300	Antiflash finish, Marine environment for engine room

\* L = Lengths – W = Width – H = Height

## Key Benefits

- Low losses

## Typical application

- Filtering inductors, interphase inductors...

## Electric schematic examples

Autotransformer 12 pulses:

