Nanocrystalline and Amorphous

Amorphous and nanocrystalline toroidal cores

Nanocrystalline common-mode chokes

Performance characteristics:

High saturation magnetization, high permeability, low loss, small volume, light weight, effective damping of electromagnetic interferences, outstanding frequency characteristics, high temperature stability. Iron core specification and performance

Model	Iron Core Size (mm)			Protective Case Size (mm)			Single Turn Inductance (μH)
TIE-C-AN1	d_1	d_2	h_1	d_1	d_2	h_1	
TIE-C-AN2	12	20	8	10.6	22.8	10.7	≤12
TIE-C-AN3	12	20	10	10.6	28.3	13.0	≥25
TIE-C-AN4	16	26	10	14.2	28.3	13.0	≥40
TIE-C-AN5	20	32	10	18.1	34.4	13.2	≥48
TIE-C-AN6	20	32	15	18.1	34.4	17.5	≥50
TIE-C-AN7	25	40	10	23.1	42.5	13.1	≥60
TIE-C-AN8	25	40	15	23.1	42.5	17.5	≤90

Toroidal powder cores for Inductive filters

Performance characteristics:

High magnetic saturation, low loss at high frequency, wide frequency band,used for current spike filtering, magnetic energy-storage in high frequency switch mode power supply.

Iron core specification and performance

Model	Iron Core Size (mm)			Protective Case Size (mm)				
TIE-C-AN9	d_1	d_2	h_1	d_1	d_2	h_1	Magnetic Conductivityμ (Gs/Oe)	Loss (W/kg)
TIE-C-AN10	10	14	6.5	8.5	15.5	8.4	800～1200	<1.0
TIE-C-AN11	11	19	10	9.0	20.2	11.8	800～1200	<1.0
TIE-C-AN12	12	20	10	10.6	22.8	13	800～1200	<1.0
TIE-C-AN13	16	26	10	14.2	28.3	13.1	800～1200	<1.0
TIE-C-AN14	20	32	10	18.1	34.4	13.2	800～1200	<1.0

Open gap toroidal cores from amorphous ribbon for difference-mode inductive iron core

Performance characteristics:

Open iron core shows remarkable constant inductance as a function of DCbias field, present low loss and are used as inductive iron cores in all kinds of power sources.

Model	Iron Core Size (mm)			Open Air Gas (mm)	Magnetic Conductivityμ (Gs/Oe)	Loss (W/kg)	Constant Inductive Range
	d_1	d_2	h_1				
TIE-C-AN15	12	16	10	0.4～1.0	100～500	1～5	0～800A/m
TIE-C-AN16	15	24	6.5	1.0～2.0	100～500	1～5	0～800A/m
TIE-C-AN17	15	25	10	0.4～1.0	100～500	1～5	0～800A/m
TIE-C-AN18	18	24	10	2.0～3.0	100～500	1～5	0～800A/m
TIE-C-AN19	20	30	6.5	1.0～2.0	100～500	1～5	0～800A/m
TIE-C-AN20	25	32	10	3.0～4.0	100～500	1～5	0～800A/m
TIE-C-AN21	25	45	10	4.0～5.0	100～500	1～5	0～800A/m
TIE-C-AN22	30	40	10	2.0～3.0	100～500	1～5	0～800A/m
TIE-C-AN23	45	55	10	2.0～3.0	100～500	1～5	0～800A/m
TIE-C-AN24	65	75	10	2.0～3.0	100～500	1～5	0～800A/m