

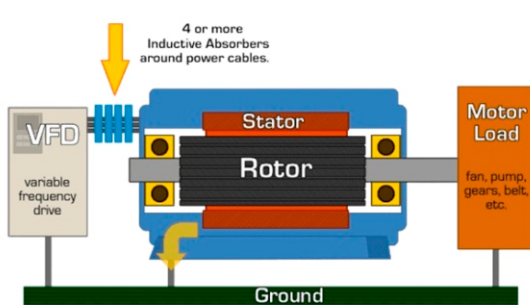


Vikarsh Nano Technology & Alloys Pvt. Ltd.

INDIA'S ONLY COMPANY MANUFACTURING NANO CRYSTALLINE RIBBON



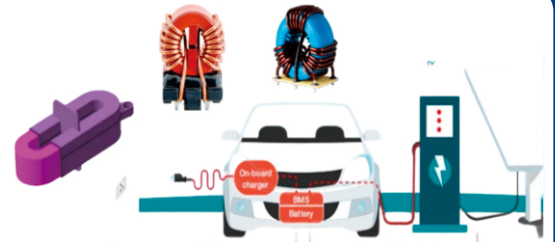
HIGH FREQUENCY NANOCRYSTALLINE CORES



Inverter-motor systems



Induction heating



AC Charging
- Every vehicle has an on-board charger
- Limited Power, slow charging

DC Charging
- Infrastructure investment is shared among hundreds of users.
- Large power rating, fast charging
- Capable of integration with renewable sources

Rectifiers

Common Mode Chokes

Battery Management

Features:

1. Cores made from Ultra fine ribbons, avg thickness (14~17 microns).
2. Low Remanence, Low Core Loss at Higher Frequencies i.e. upto 200 kHz and above.
3. High Inductance for efficient EMI/Noise blocking at 1kHz and above
4. Low density, Light Weight Energy Efficient Cores.
5. Excellent Thermal Stability at wide range (-50degC ~ +130degC)
6. RoHs, REACH, UL-94 compliant Flame Retardant Housing
7. Suitable for both Horizontal and Vertical Mounting.

Areas of Application:

1. Inductive absorbers in inverter-motor systems
2. Common Mode/EMI noise suppression in chokes and filters.
3. Welding Rectifiers and DC Power Conversion
4. Cores for Inductors
5. X-ray Machine Generator Core
6. Middle Frequency Transformer Core (Grid Coupling)
7. Fast Chargers, Bi-directional DC-to-DC Converters
8. EV Battery Management Systems
9. Induction Heating Systems.



**Vikarsh Nano Technology
& Alloys Pvt. Ltd.**

ORDERING INFORMATION

SR. NO	PART NO	CORE OD MM	CORE ID MM	CORE HT MM	CASE OD MM	CASE ID MM	CASE HT MM	Le cm	Ae cm ²	Als μ H @10kHz	Als μ H @100kHz	SHAPE	FINISH
1	VS31618-R139505	13.00	9.50	5.00	14.40	8.30	6.30	3.53	0.07	18.00	4.00	TOROID	PLASTIC CASE (SILICON RUBBER)
2	VS31618-R178135	17.80	13.00	5.00	19.60	11.40	6.40	4.84	0.10	19.00	5.00	TOROID	PLASTIC CASE (SILICON RUBBER)
3	VS31618-R302008	30.00	20.00	8.00	32.60	18.20	10.00	7.85	0.33	20.00	5.00	TOROID	PLASTIC CASE (SILICON RUBBER)
4	VS31618-R201410	20.00	14.00	10.00	22.60	12.10	12.00	5.34	0.02	39.00	10.00	TOROID	PLASTIC CASE (SILICON RUBBER)
5	VS31618-R281910	28.00	19.00	10.00	29.70	17.20	12.20	7.38	0.04	29.00	7.00	TOROID	PLASTIC CASE (SILICON RUBBER)
6	VS31618-R251610	25.00	16.00	10.00	27.80	14.00	12.00	6.43	0.34	65.00	18.00	TOROID	PLASTIC CASE (SILICON RUBBER)
7	VS31618-R403215	40.00	32.00	15.00	44.00	29.00	19.00	11.30	0.50	45.00	12.00	TOROID	PLASTIC CASE (SILICON RUBBER)
8	VS31618-R402515	40.00	25.00	15.00	43.00	22.00	19.00	10.20	0.98	85.00	25.00	TOROID	PLASTIC CASE (SILICON RUBBER)
9	VS31618-R633925	63.00	39.00	25.00	66.00	36.00	29.00	16.04	2.40	120.00	30.00	TOROID	PLASTIC CASE (SILICON RUBBER)
10	VS31618-R906020	90.00	60.00	20.00	94.00	55.00	24.00	24.33	2.63	75.00	25.00	TOROID	PLASTIC CASE (SILICON RUBBER)
11	VS31618-R1027625	102.00	76.00	25.00	102.00	76.00	25.00	27.95	2.54	75.00	25.00	TOROID	PLASTIC CASE (SILICON RUBBER)

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