NEW

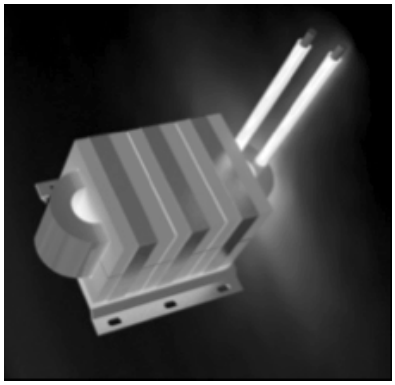
PREMO

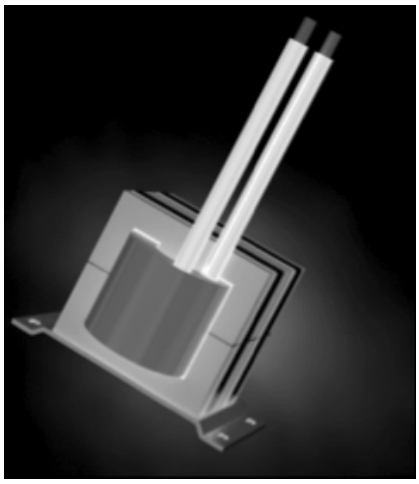
HSC Series

AC High Storage Choke Series for Renewable Energy Inverters

Features

- Dedicated to low cost applications
- High inductance value: 1 to 3mH
- Current rating : Up to 20Arms @50Hz
- Choke designed for 25% of current ripple @20kHz
- Operating temperature from -20°C to 70°C
- UL 1446 insulation system, UL 94V0 approved materials
- 3 different mechanical integration proposed (1): single (-O), aluminum plate (-P), plastic box (-B)
- Possibility of customized of output terminals: racket, fast on, direct leads...





Applications

- Inverters for Renewable Energy applications
- UPS inverters

Electrical specifications

Code	L0 (2) INDUCTANCE ±10% (mH) at 1V/20kHz/0A	I_{RMS}@50Hz MAX (A)	ΔI@20kHz MAX (A)	I_{PEAK} (2, 3) MAX (A)	DCR(2) MAX (mΩ)	Total losses at 100°C (W)	Heating at Total losses (°C)(5)
HSC-1-15-X	1	15	6	24	65	20	55
HSC-1-20-X	1	20	8	32	60	33	(Note 6)
HSC-2-10-X	2	10	4	15	140	19	55
HSC-2-15-X	2	15	6	24	180	54	(Note 6)
HSC-3-5-X	3	5	2	8	65	5	15
HSC-3-10-X	3	10	4	15	180	25	65

Notes

(1) Mechanical integrations proposed : -O for single, -P for aluminum plate, -B for plastic box (Example: HSC-1-15-O for single)
(2) All test data are referenced to 25°C ambient temperature
(3) Maximum current before drop of inductance value
(4) Continuous operating temperature range must be within -25°C/+130°C (ambient + self heating) under worst case conditions
(5) Heating for potted product
(6) Additional cooling system have to be added (Example: blowing air, cold plate)

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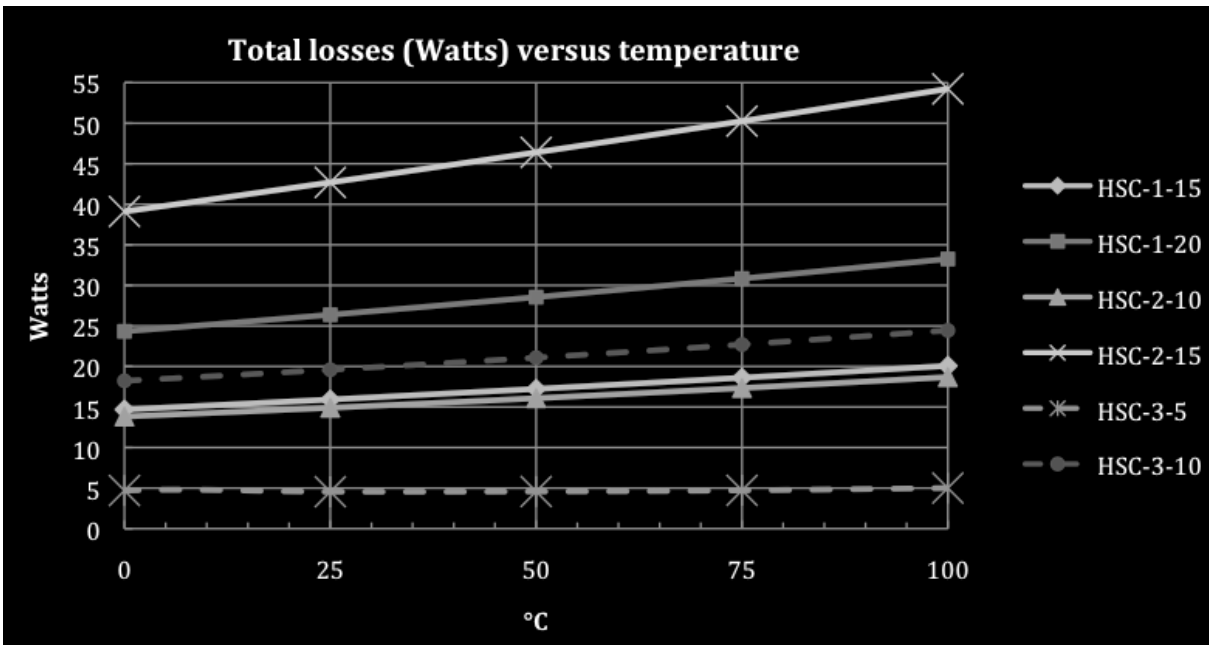
Typical performances temperature and frequency



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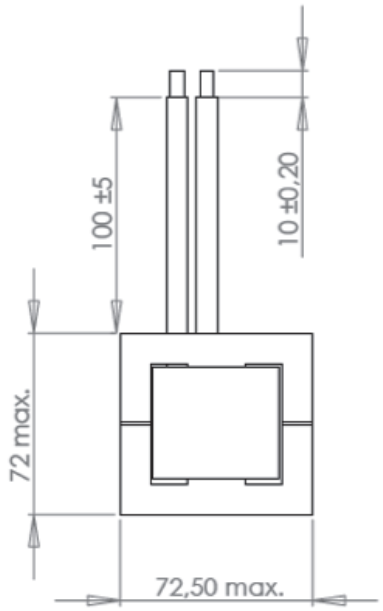
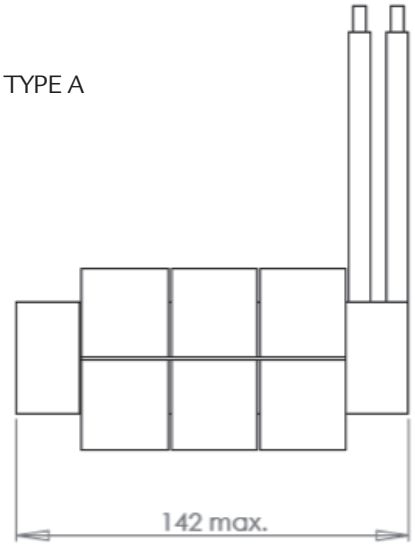
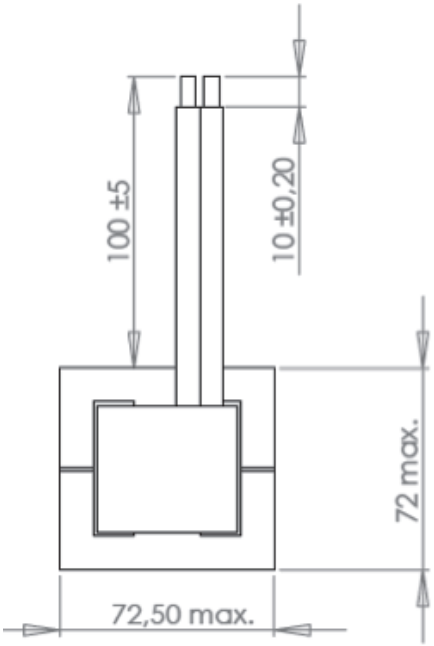
Dimensions (mm)

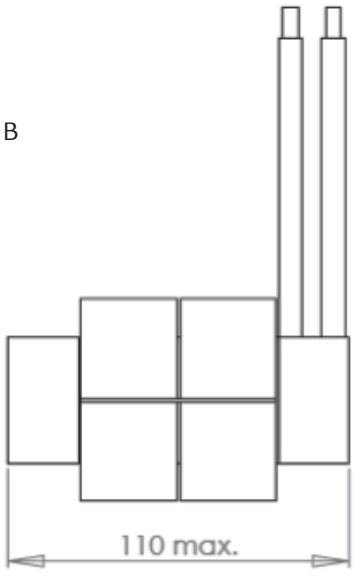


TYPE A





TYPE B



Code	TYPE
HSC-1-15-O	A
HSC-1-20-O	B
HSC-2-10-O	A
HSC-2-15-O	B
HSC-3-5-O	A
HSC-3-10-O	B

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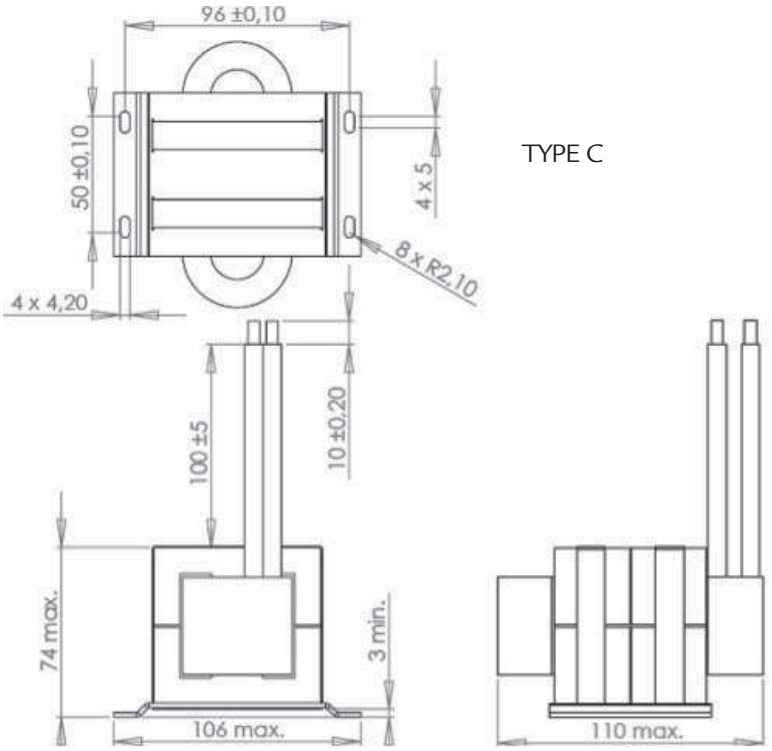
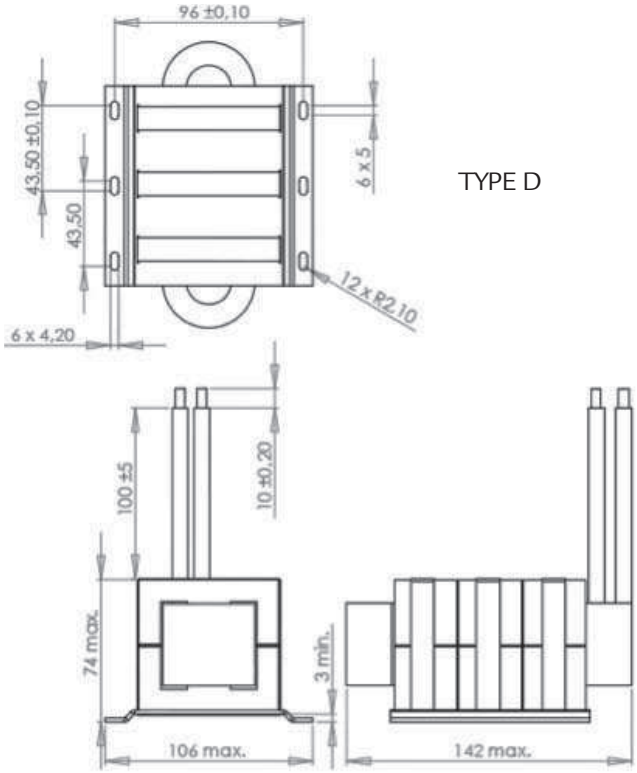
Dimensions (mm)



TYPE C



TYPE D

Code	TYPE
HSC-1-15-P	C
HSC-1-20-P	D
HSC-2-10-P	C
HSC-2-15-P	D
HSC-3-5-P	C
HSC-3-10-P	D

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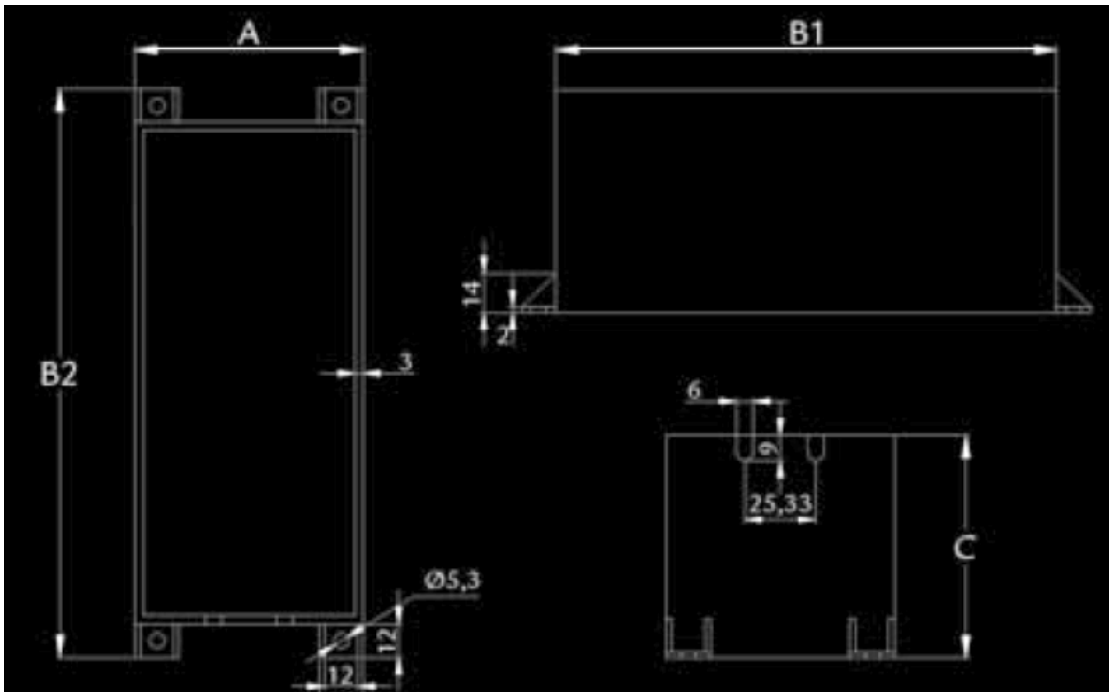
Dimensions (mm)



Code	A	B1	B2	C
HSC-1-15-B	82	116	140	80
HSC-1-20-B	82	148	172	80
HSC-2-10-B	82	116	140	80
HSC-2-15-B	82	148	172	80
HSC-3-5-B	82	116	140	80
HSC-3-10-B	82	148	172	80

Packaging

Antistatic trays with carton grids in carton box