

Technical Inquiry Inductor



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Application SIC: YES NO

General information (the correct one has to be marked or rather added)

Company Customer		Quantity / year		Target price	
Contact person Customer		Delivery date Prototype		SOP	
Market segment	Industrial	Rail	Medical	Renewable Energy	Others

Inductor (the correct one has to be marked or rather added)

Type of inductor	1) DC-Inductor	2a) AC-Inductor	2b) PFC-Inductor	3) Sinus-Inductor
Nominal current (In)		A		
Fundamental frequency (f)		kHz / Hz (2a, 2b, 3)		
Multifrequency for fundamental current?		kHz / Hz (2a, 2b)		
Ripple current (Iss)		A (1, 2a, 2b)		
Ripple frequency (f)		kHz / Hz (1, 2a, 2b)		
Multifrequency for ripple current?		kHz / Hz (1, 2a, 2b)		
Characteristics of inductance	linear	nonlinear		
Nominal inductance (Ln@In/RT)		µH / mH		
for linear characteric of inductance:				
Inductance at saturation L(Isat)		µH / mH	A	
for nonlinear characteric of inductance:				
Working Point 1 (L0) no load inductance)		µH / mH	A	
Working Point 2 (L(I))		µH / mH	A	
unipolar?	Yes / No			

Drosseltyp:

Engineer standards (the correct one has to be marked or rather added)

Applicable engineer standard?	EN			
Rated insulation voltage (The highest voltage potential that the insulation system see)	Um =	V		
Insulation test voltage		kV		
Operating voltage		V		
UL listed materials necessary?	Yes / No			
Insulation	Basic / Double			
Clearance cl		mm		
Creepage distance cr		mm		
Partial-discharge extinction voltage	TE_aus > [V_rms]		at Q < [pC]	

Ambient conditions (the correct one has to be marked or rather added)

Ambient temperature	from [°C]		to [°C]	
Cooling type	natural convection	forced air cooling ___m/s	mounted on cold plate with Tmax = ___ °C	
Required temperature class	B / F / H			
Required noise level	no requirement / yes		dB	
Required protection class (IP)	IP00	IP21	IP44	IP54
				IP65
				IP66

Comments

Date + Signature	