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T225-28 or T225-30

Features

Low core loss and good results at lower cost.

Applicable for Power Factor Correction Chokes, DC Chokes and lower or higher Et/N.

Electrical Specifications							
Item	Unit/Symbol	Condition	Value	Tol.			
A_L	nH/N ²	AC flux density of 10 gauss (1 mT) @10 kHz	28.0	± 10%			
Le	cm	cm N/A 1		Тур.			
Ae	cm ²	N/A	1.420	Тур.			
V _e	cm ³	N/A	20.700	Тур.			
Density	g/cm ³	N/A	6.0	Typ.			
Permeability	μ_0	N/A	22	± 10%			
Permeability with DC BIAS	%μ ₀ , μ ₀ effective	HDC = 50 Oerstesd	91, 20	Тур.			
Temp. Coef. of Permeability	+ppm/°C	N/A	510	Тур.			
Coef. of Lin. Expansion	+ppm/°C	N/A	11	Тур.			
Thermal Conductivity	mW/cm-°C	N/A	20	Тур.			

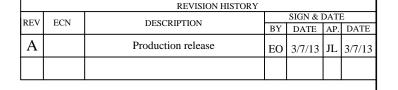
$$Temperature \ Rise: \Delta T(^{\circ}C) = \left[\frac{Total \ Power \ Dissipation \ (milliwatts)}{Surface \ Area \ (cm^{2})}\right]^{0.833}$$

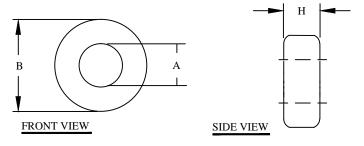
$$Required turns = \left[\frac{desired L (nH)}{A_L \left(\frac{nH}{N^2} \right)} \right]^{\frac{1}{2}}$$

Peak AC Flux Density:
$$B_{pk} = \frac{E_{avg} 10^8}{4ANf}$$

Magnetizing Force:
$$H = \frac{0.4\pi\,N\,I}{\ell}$$

Core Loss in mW/cm³ (extrapolated data from high frequency testing)							
Frequency	60 Hz	1kHz	10kHz	50kHz	100kHz	500kHz	
Condition	@ 5000G	@ 1500G	@ 500G	@ 225G	@ 140G	@ 50G	
Value	37	80	120	149	129	129	





Case Dimensional Tolerances							
	in	tol.	mm	tol.			
B (Outer Diameter)	2.250	0.025	57.20	0.64			
A (Inner Diameter)	1.405	0.025	35.70	0.64			
H (Height)	0.550	0.030	14.00	0.76			
Weight 124.20 g							

For additional detail, specifications and charts see:

http://www.bytemark.com/products/IPCores index.html

ℓ = Mean Magnetic Path (cm) A = Cross-sectional area (cm ²)		CODE	MEG	s. P/N		DESCRIPTI	ON	ITEM
f = frequency (hertz)		IDENT MFG. F/1		. 1711				NO.
* * * * * * * * * * * * * * * * * * * *		PARTS LIST						
B _{pk} = Gauss (G)		AD	X		CWSBYTEMARK			
		VORKS		www.coilws.com		353 West (3 West Grove Ave. Orange, CA	
UNLESS OTHERWISE SPECIFIED	SIGN		DATE	www.cwsby	ytemark.com	92865		ige, cri.
DIMENSIONING AND TOLERANCE PER ANSI Y14.5M	DRAWN	ЕО	3/7/13	Tron D	owder Coi	re Material Mix 28 or		
ALL DIMENSIONS ARE IN INCHES AND [MILIMETERS].	CHECKED	JL	3/7/13	110111			20 01	
TOLERANCE INCHES: .XXX=±.005 .XX=±.015	ENGR.	JL	3/7/13	CIZE IDWO NO	30, Green/Gray			DE./
XXX=±.127 .XX=±.38 ◀=±0'30' ANGLE PROJECTION ⊕ —		JL	3/7/13	SIZE DWG. NO.	T225-28	or T225	5-30	A REV
				SCALE		1		
DO NOT SCALE DRAWING					N/A		SHEET 1 O	r I

EP FORM0005 REV 3 10/01 CAD-FILE:

L = inductancenH = nanohenries

H = oersteds (Oe)N = Number of turns

I = Current (amperes)