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F-290-JC

Features

MnZn ferrite material for common mode chokes, power transformers, power inductors, broadband transformers, noise filter and etc.

Electrical Specifications

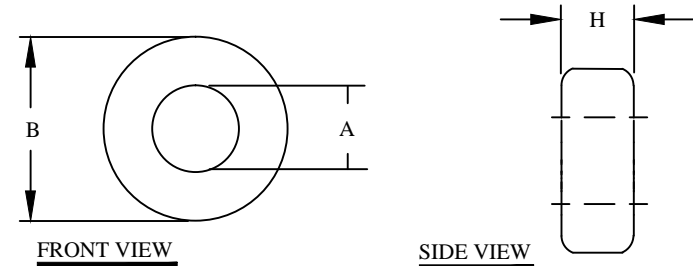
Item	Unit/Symbol	Condition	Value	Tol.
A_L	mH/1000	@ 5 gauss in a de-gaussed state	8140	± 20%
L_e	cm	N/A	16.5	± 10%
A_e	cm ²	N/A	2.12	± 10%
V_e	cm ³	N/A	35.5	± 10%
Density	g/cm ³	N/A	4.8	Typ.
Permeability	μ_0	Typical	5000	± 20%
Coercivity	O_e , A/m	Typical	0.1, 8	Typ.
Flux Density	Gauss, B	Typical	4300	Typ.
	Gauss, H	@ 1194 A/m, 15 oe mT	430	Typ.
Curie temperature	°C	T_c	> 140	Typ.
Resistivity	Ω cm, ρ	Typical	1	Typ.
Relative Loss Factor	10^{-6}	$\tan\delta / \mu$	< 20	Typ.
	kHz	@ Frequency	100	Typ.
Max. Usable freq.	MHz	50% roll-off	< 1	Typ.
Remanence	G, mT	Typical	1000, 100	Typ.
Disaccommodation Factor	10^{-6}	Typical	< 3	Typ.

Power Loss (P_L), Sine Wave, in mW/cm³ (typical)

Condition		@ 25 °C		@ 60 °C		@ 100 °C	@ 120 °C
I	25 kHz	N/A	200 mT	N/A	2000 G	N/A	N/A
II	100 kHz	N/A	100 mT	N/A	1000 G	N/A	N/A
III	500 kHz	N/A	50 mT	N/A	500 G	N/A	N/A
IV	700 kHz	N/A	50 mT	N/A	500 G	N/A	N/A

REVISION HISTORY

REV	ECN	DESCRIPTION	SIGN & DATE			
			BY	DATE	AP.	DATE
A		Production release	EO	2/13/13	JL	2/13/13



Case Dimensional Tolerances

	in	tol.	mm	tol.
B (Outer Diameter)	2.900	2.940 Max	73.70	74.68 Max
A (Inner Diameter)	1.530	1.490 Min	38.90	37.84 Min
H (Height)	0.500	0.510 Max	12.70	12.96 Max
Weight	177.00 g			

For additional detail, specifications and charts see:

<http://www.bytemark.com/>

CODE IDENT	MFG. P/N	DESCRIPTION	ITEM NO.
PARTS LIST			
AUTOCAD	X	www.coilws.com www.cwsbytemark.com	CWSBYTEMARK 353 West Grove Ave. Orange, CA. 92865
SOLIDWORKS			
DRAWN	EO 2/13/13	TITLE: Ferrite Toroid Core MnZn Material J, Epoxy Coated	
CHECKED	JL 2/13/13		
ENGR.	JL 2/13/13		
APPR.	JL 2/13/13		
SIZE DWG. NO.		B	F-290-JC
SCALE		N/A	REV A
SHEET 1 OF 1			

UNLESS OTHERWISE SPECIFIED
 DIMENSIONING AND TOLERANCE PER ANSI Y14.5M
 ALL DIMENSIONS ARE IN INCHES AND [MILLIMETERS].
 TOLERANCE INCHES:
 .XXX=±.005 .XX=±.015 \angle =±0°30'
 TOLERANCE METRICS:
 .XXX=±.127 .XX=±.38 \angle =±0°30'
 ANGLE PROJECTION
 DO NOT SCALE DRAWING