

# USHA AMORPHOUS METALS LTD, INDIA (TOROIDAL- CORE DESIGN)

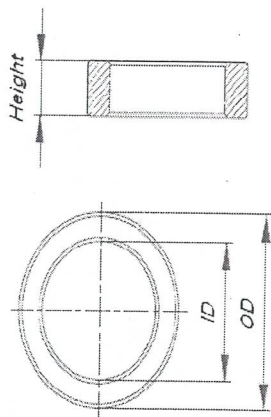
Enquiry No. : E/D/19/423

Dated : 21/05/2019

Rev. : 00 Dated : 21-05-19

**MATERIAL :** Fe Based Nanocrystalline Metal

**DIMENSIONS :**



**UMNT XAAABBCC**

- WHERE : Uam1 Magnetics
- UM : Nano Crystalline
- N : Toroidal
- T : Material Grade
- X : Outer Dimension without casing
- AAA : Inner Dimension without casing
- BB : Height Dimension without casing
- CC :

**Dimensions:** mm  
**Scale:** Not To Scale  
**Protection:** Third Angle

**PHYSICAL SPECIFICATION :**

Outer Diameter (Bare)	(OD <sub>B</sub> ) mm	12.50
Inner Diameter (Bare)	(ID <sub>B</sub> ) mm	9.50
Height (Bare)	(HT <sub>B</sub> ) mm	5.00
Outer Diameter (with Reinforcement)	(OD <sub>R</sub> ) mm	14.50 (Max.)
Inner Diameter (with Reinforcement)	(ID <sub>R</sub> ) mm	7.50 (Min.)
Height (with Reinforcement)	(HT <sub>R</sub> ) mm	6.80 (Max.)
Core Weight (Bare)	(grams)	1.5 ± 3.0 %
Core Weight (with Reinforcement)	(grams)	1.6 ± 3.0 %

**MAGNETIC CHARACTERISTICS :**

Mean Magnetic Path	(lm) cm	3.46
Net Cross Section Area	(Ac) cm <sup>2</sup>	0.06
Window Area	(Wa) cm <sup>2</sup>	0.71
Area Product	(Ap) cm <sup>4</sup>	0.04

**ELECTRICAL SPECIFICATION :**

**AL Value :** 6.55  $\mu H (\pm 30\%) @ 10kHz$   
**AL Value :** 1.31  $\mu H (\pm 30\%) @ 100kHz$



**Special Instruction :**

**NOTE :**  
 A. ALL MEASUREMENTS ARE DONE AT ROOM TEMPERATURE  
 B. CONTINUOUS OPERATING TEMPERATURE 130°C

Reinforcement : Plastic Box (Nylon 66 30% Glass Filled)

**Core Size : UMNT- A0131005**

**Verification :**

Prepared By :   
 Checked By :   
 Feasibility Check and Approved By : \_\_\_\_\_

NO.	REV NO.	DATE	ECN NO.	REVISIONS DETAILS	Checked	Approval
1	00	21-05-19		Permeability Changed from 25000 to 30000		

**Customer Approval :**

Company : \_\_\_\_\_  
 Approver Name : \_\_\_\_\_  
 Signature : \_\_\_\_\_ Date : \_\_\_\_\_

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