

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

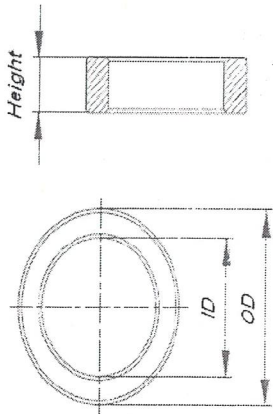
Enquiry No. : E/D/19/436

Dated : 21/05/19

Rev. : 00 Dated : 21-05-19

**MATERIAL :** Fe Based Nanocrystalline Metal

**DIMENSIONS :**



**UMNT**

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

**XAAABBCC**

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

**PHYSICAL SPECIFICATION :**

Outer Diameter (Bare)	(OD <sub>B</sub> ) mm	100.00
Inner Diameter (Bare)	(ID <sub>B</sub> ) mm	80.00
Height (Bare)	(HT <sub>B</sub> ) mm	30.00
Outer Diameter (with Reinforcement)	(OD <sub>R</sub> ) mm	103.40 (Max.)
Inner Diameter (with Reinforcement)	(ID <sub>R</sub> ) mm	76.60 (Min.)
Height (with Reinforcement)	(HT <sub>R</sub> ) mm	33.20 (Max.)
Core Weight (Bare)	(grams)	492.0 ± 3.0 %
Core Weight (with Reinforcement)	(grams)	526.9 ± 3.0 %

**MAGNETIC CHARACTERISTICS :**

Mean Magnetic Path	(lm) cm	28.27
Net Cross Section Area	(Ac) cm <sup>2</sup>	2.40
Window Area	(Wa) cm <sup>2</sup>	50.27
Area Product	(Ap) cm <sup>4</sup>	120.64

**ELECTRICAL SPECIFICATION :**

AL Value : 32.00  $\mu$ H ( $\pm$ 30%) @ 10kHz  
 AL Value : 6.40  $\mu$ 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- A01008030**

Verification :

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

Customer Approval :

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

NO.	REV NO.	DATE	ECN NO.	REVISIONS DETAILS	Checked	Approval
01	00	21-05-19		Permeability Changed from 25000 to 30000		

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