

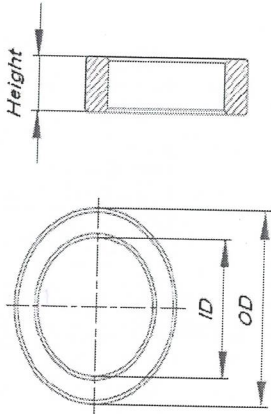
# USHA AMORPHOUS METALS LTD, INDIA (TOROIDAL- CORE DESIGN)

Enquiry No. : E/D/19/428  
 Dated : 21/05/19

**MATERIAL :** Fe Based Nanocrystalline Metal

Rev. : 00 Dated : 21-05-19

**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	30.00
Inner Diameter (Bare)	(ID <sub>B</sub> ) mm	20.00
Height (Bare)	(HT <sub>B</sub> ) mm	10.00
Outer Diameter (with Reinforcement)	(OD <sub>R</sub> ) mm	33.00 (Max.)
Inner Diameter (with Reinforcement)	(ID <sub>R</sub> ) mm	17.20 (Min.)
Height (with Reinforcement)	(HT <sub>R</sub> ) mm	12.40 (Max.)
Core Weight (Bare)	(grams)	22.8 ± 3.0 %
Core Weight (with Reinforcement)	(grams)	24.4 ± 3.0 %

**MAGNETIC CHARACTERISTICS :**

Mean Magnetic Path	(lm) cm	7.85
Net Cross Section Area	(Ac) cm <sup>2</sup>	0.40
Window Area	(Wa) cm <sup>2</sup>	3.14
Area Product	(Ap) cm <sup>4</sup>	1.26

**ELECTRICAL SPECIFICATION :**

AL Value : 19.20 μH (±30%) @ 10kHz  
 AL Value : 3.84 μH (±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- A0302010**

**Verification :**

Prepared By : *[Signature]*  
 Checked By : *[Signature]*  
 Feasibility Check and Approved By : *[Signature]*

**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

**NOTICE/DISCLAIMER :**

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