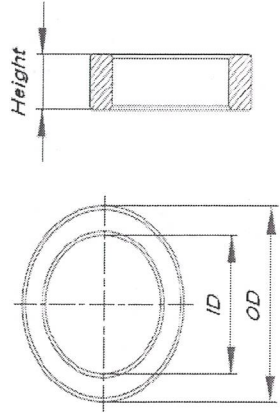


# USHA AMORPHOUS METALS LTD, INDIA (TOROIDAL-CORE DESIGN)

Enquiry No. : E/D/19/435  
 Dated : 21/05/19  
 Rev. : 00 Dated : 21-05-19

**MATERIAL :** Fe Based Nanocrystalline Metal

**DIMENSIONS :**



**UMNT XAAABBCC**

- 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

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

**PHYSICAL SPECIFICATION :**

Outer Diameter (Bare)	(OD <sub>B</sub> ) mm	90.00
Inner Diameter (Bare)	(ID <sub>B</sub> ) mm	60.00
Height (Bare)	(HT <sub>B</sub> ) mm	30.00
Outer Diameter (with Reinforcement)	(OD <sub>R</sub> ) mm	93.40 (Max.)
Inner Diameter (with Reinforcement)	(ID <sub>R</sub> ) mm	56.60 (Min.)
Height (with Reinforcement)	(HT <sub>R</sub> ) mm	33.20 (Max.)
Core Weight (Bare)	(grams)	615.0 ± 3.0 %
Core Weight (with Reinforcement)	(grams)	658.6 ± 3.0 %

**MAGNETIC CHARACTERISTICS :**

Mean Magnetic Path	(lm) cm	23.56
Net Cross Section Area	(Ac) cm <sup>2</sup>	3.60
Window Area	(Wa) cm <sup>2</sup>	28.27
Area Product	(Ap) cm <sup>4</sup>	101.79

**ELECTRICAL SPECIFICATION :**

**AL Value :** 57.60 μH (±30%) @ 10kHz  
**AL Value :** 11.52 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- A0906030**

**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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