

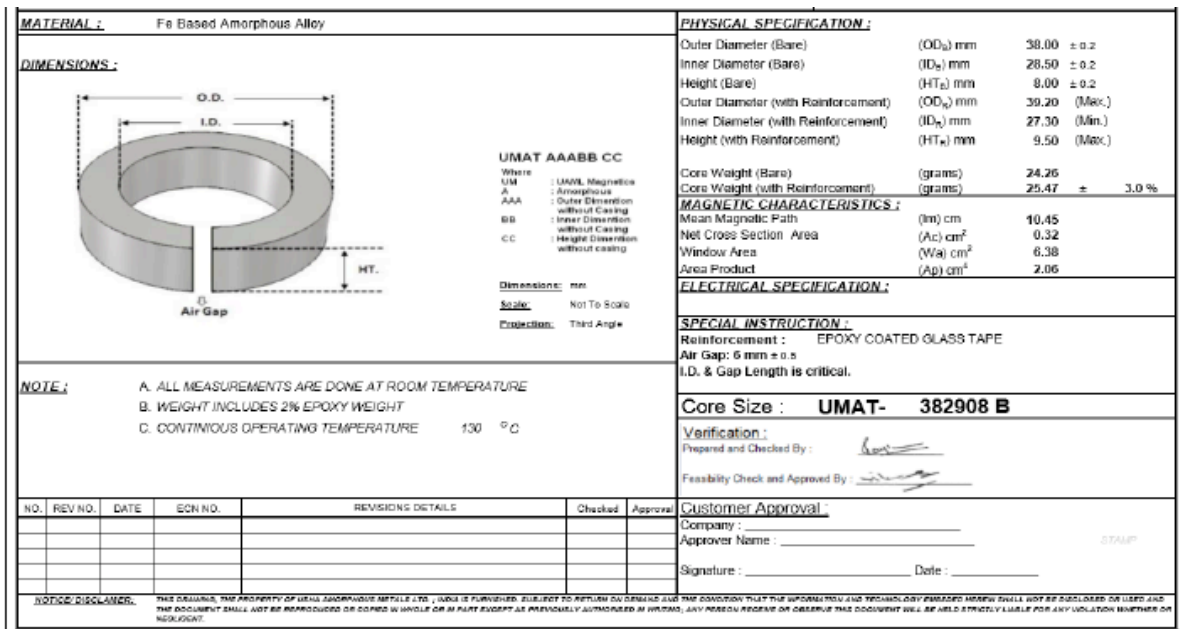
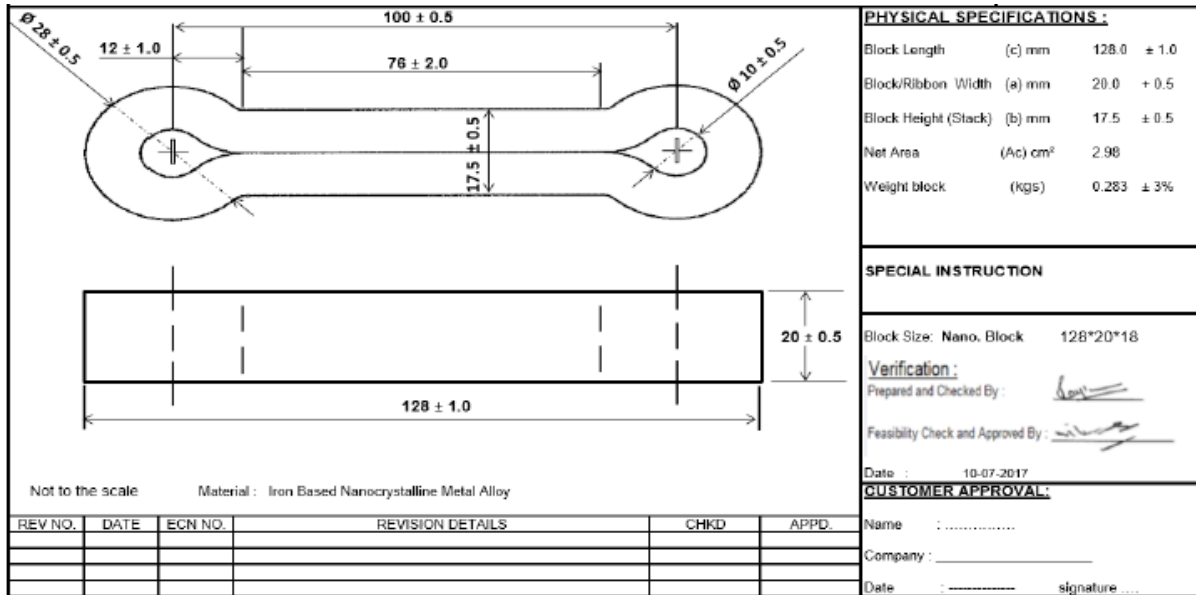
Special Cores

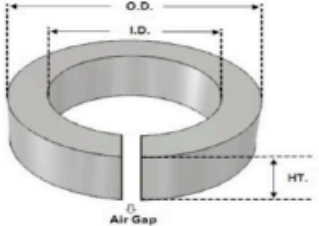


Triangular Block

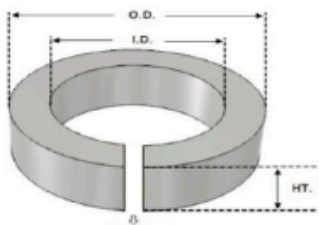


<p>CUSTOMER REFERENCE: Block</p> <p>Not to the scale Material: Iron Based Amorphous Metal</p>		<p>PHYSICAL SPECIFICATIONS:</p> <table border="1"> <tr> <td>Block Length</td> <td>(c) mm</td> <td>37.0 ± 1.0</td> </tr> <tr> <td>Block/Ribbon Width</td> <td>(c') mm</td> <td>5 +1.0</td> </tr> <tr> <td>Block/Ribbon Width</td> <td>(a) mm</td> <td>110.0 ± 1.0</td> </tr> <tr> <td>Block Height (Stack)</td> <td>(b) mm</td> <td>91.0 ± 1.0</td> </tr> <tr> <td>Weight block</td> <td>(kgs)</td> <td>1.23 ± 3%</td> </tr> </table>	Block Length	(c) mm	37.0 ± 1.0	Block/Ribbon Width	(c') mm	5 +1.0	Block/Ribbon Width	(a) mm	110.0 ± 1.0	Block Height (Stack)	(b) mm	91.0 ± 1.0	Weight block	(kgs)	1.23 ± 3%									
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REV. NO.	DATE	ECN NO.	REVISION DETAILS	CHKD	APPD.																					

Double Dombbell Shape Block

<p>Not to the scale Material: Iron Based Nanocrystalline Metal Alloy</p>		<p>PHYSICAL SPECIFICATIONS:</p> <table border="1"> <tr> <td>Block Length</td> <td>(c) mm</td> <td>110.0 ± 1.0</td> </tr> <tr> <td>Block/Ribbon Width</td> <td>(a) mm</td> <td>20.0 + 0.5</td> </tr> <tr> <td>Block Height (Stack)</td> <td>(b) mm</td> <td>17.5 ± 0.5</td> </tr> <tr> <td>Net Area</td> <td>(Ac) cm²</td> <td>2.98</td> </tr> <tr> <td>Weight block</td> <td>(kgs)</td> <td>0.244 ± 3%</td> </tr> </table>	Block Length	(c) mm	110.0 ± 1.0	Block/Ribbon Width	(a) mm	20.0 + 0.5	Block Height (Stack)	(b) mm	17.5 ± 0.5	Net Area	(Ac) cm²	2.98	Weight block	(kgs)	0.244 ± 3%									
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Block/Ribbon Width	(a) mm	20.0 + 0.5																								
Block Height (Stack)	(b) mm	17.5 ± 0.5																								
Net Area	(Ac) cm²	2.98																								
Weight block	(kgs)	0.244 ± 3%																								
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REV. NO.	DATE	ECN NO.	REVISION DETAILS	CHKD	APPD.																					



MATERIAL : Fe Based Amorphous Alloy		PHYSICAL SPECIFICATION :																													
DIMENSIONS : 		Outer Diameter (Bare) (OD _b) mm 38.00 ± 0.2 Inner Diameter (Bare) (ID _b) mm 28.50 ± 0.2 Height (Bare) (HT _b) mm 8.00 ± 0.2 Outer Diameter (with Reinforcement) (OD _r) mm 39.20 (Max.) Inner Diameter (with Reinforcement) (ID _r) mm 27.30 (Min.) Height (with Reinforcement) (HT _r) mm 9.50 (Max.)																													
UMAT AAABB CC Where UM : UMAT, Magnetics A : Amorphous AAA : Outer Dimension without Coating BB : Inner Dimension without Coating CC : Height Dimension without coating Dimensions: mm Scale: Not To Scale Projection: Third Angle		Core Weight (Bare) (grams) 24.26 Core Weight (with Reinforcement) (grams) 25.47 ± 3.0 % MAGNETIC CHARACTERISTICS : Mean Magnetic Path (lm) cm 10.45 Net Cross Section Area (Ac) cm ² 0.32 Window Area (Wa) cm ² 6.38 Area Product (Ap) cm ² 2.06 ELECTRICAL SPECIFICATION :																													
NOTE : A. ALL MEASUREMENTS ARE DONE AT ROOM TEMPERATURE B. WEIGHT INCLUDES 2% EPOXY WEIGHT C. CONTINUOUS OPERATING TEMPERATURE 130 °C		SPECIAL INSTRUCTION : Reinforcement : EPOXY COATED GLASS TAPE Air Gap: 8 mm ± 0.5 I.D. & Gap Length is critical.																													
<table border="1"> <thead> <tr> <th>NO.</th> <th>REV. NO.</th> <th>DATE</th> <th>ECN NO.</th> <th>REVISIONS DETAILS</th> <th>Checked</th> <th>Approval</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>		NO.	REV. NO.	DATE	ECN NO.	REVISIONS DETAILS	Checked	Approval																						Core Size : UMAT- 382908 C Verification : Prepared and Checked By:  Feasibility Check and Approved By: 	
NO.	REV. NO.	DATE	ECN NO.	REVISIONS DETAILS	Checked	Approval																									
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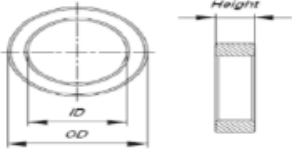
MATERIAL : Fe Based Amorphous Alloy		PHYSICAL SPECIFICATION :																													
DIMENSIONS : 		Outer Diameter (Bare) (OD _b) mm 38.00 ± 0.2 Inner Diameter (Bare) (ID _b) mm 28.50 ± 0.2 Height (Bare) (HT _b) mm 8.00 ± 0.2 Outer Diameter (with Reinforcement) (OD _r) mm 39.20 (Max.) Inner Diameter (with Reinforcement) (ID _r) mm 27.30 (Min.) Height (with Reinforcement) (HT _r) mm 9.50 (Max.)																													
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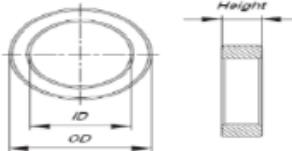
MATERIAL : Fe Based Amorphous Alloy		PHYSICAL SPECIFICATION :					
DIMENSIONS :		Outer Diameter (Bare) (OD _b) mm 38.00 ± 0.2					
<p>UMAT AAABB CC Where UM : UMAT, Magnetics A : Amorphous AAA : Outer Dimension without Casing BB : Inner Dimension without Casing CC : Height Dimension without casing</p> <p>Dimensions: mm Scale: Not To Scale Projection: Third Angle</p>		Inner Diameter (Bare) (ID _b) mm 28.50 ± 0.2					
		Height (Bare) (HT _b) mm 8.00 ± 0.2					
<p>NOTE :</p> <p>A. ALL MEASUREMENTS ARE DONE AT ROOM TEMPERATURE</p> <p>B. WEIGHT INCLUDES 2% EPOXY WEIGHT</p> <p>C. CONTINUOUS OPERATING TEMPERATURE 130 °C</p>		Outer Diameter (with Reinforcement) (OD _r) mm 39.20 (Max.)					
		Inner Diameter (with Reinforcement) (ID _r) mm 27.30 (Min.)					
		Height (with Reinforcement) (HT _r) mm 9.50 (Max.)					
		Core Weight (Bare) (grams) 24.25					
		Core Weight (with Reinforcement) (grams) 25.47 ± 3.0 %					
		MAGNETIC CHARACTERISTICS :					
		Mean Magnetic Path (lm) cm 10.45					
		Net Cross Section Area (Ac) cm ² 0.32					
		Window Area (W _w) cm ² 6.38					
		Area Product (Ap) cm ⁴ 2.06					
		ELECTRICAL SPECIFICATION :					
		SPECIAL INSTRUCTION :					
		Reinforcement : EPOXY COATED GLASS TAPE					
		Air Gap: 11 mm ± 0.5					
		I.D. & Gap Length is critical.					
		Core Size : UMAT- 382908 F					
		Verification:					
		Prepared and Checked By: _____					
		Feasibility Check and Approved By: _____					
		Customer Approval :					
		Company: _____					
		Approver Name: _____ STAMP					
		Signature: _____ Date: _____					
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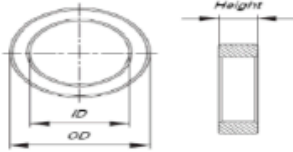


Multicore Toroidal Core

MATERIAL : Fe Based Amorphous Alloy		PHYSICAL SPECIFICATION :					
DIMENSIONS :		Outer Diameter (OD _b) mm 280.00					
		Inner Diameter (ID _b) mm 95.00					
		Height (HT _b) mm 40.00					
		Core Weight (Bare) (grams) 9359.89 ± 3%					
		MAGNETIC CHARACTERISTICS :					
		Mean Magnetic Path (lm) cm 58.90					
		Net Cross Section Area (Ac) cm ² 31.45					
		Window Area (W _w) cm ² 70.88					
		Area Product (Ap) cm ⁴ 2229.24					
		ELECTRICAL & MAGNETIC PARAMETERS:-					
		Core loss < 0.34 w/kg @ 1.35 Tesla, 50 Hz					
		B = 1.35 For 50Hz, H _{max} = 80a/m for 50Hz.					
		Stacking Factor:- 0.85					
		Core Size : UMAT- 2809540					
		Verification:					
		Prepared and Checked By: _____					
		Feasibility Check and Approved By: _____					
		Customer Approval :					
		Company: _____					
		Approver Name: _____ STAMP					
		Signature: _____ Date: _____					
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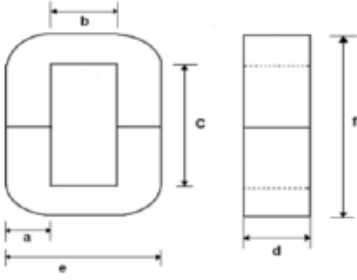


Large Toroidal Cores

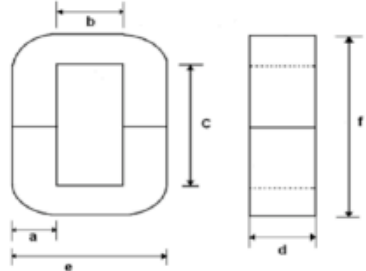
MATERIAL : Amorphous Alloy		PHYSICAL SPECIFICATION :																																				
DIMENSIONS :  UMAT AAABB CC Where : UAMM, Magnetics UM : Amorphous A : Outer Dimension without Casing AAA : Inner Dimension without Casing BB : Height Dimension without Casing CC : Height Dimension without Casing Dimensions: mm Scale: Not To Scale Projection: Third Angle		Outer Diameter (Bare) (OD _b) mm 1070.00 Inner Diameter (Bare) (ID _b) mm 1000.00 Height (Bare) (HT _b) mm 20.00 Outer Diameter (with Reinforcement) (OD _r) mm 1080.00 (Max.) Inner Diameter (with Reinforcement) (ID _r) mm 990.00 (Min.) Height (with Reinforcement) (HT _r) mm 30.00 (Max.) Core Weight (Bare) (grams) 13910.29 Core Weight (with Reinforcement) (grams) 14605.80 ± 3.0 %																																				
NOTE : A. ALL MEASUREMENTS ARE DONE AT ROOM TEMPERATURE B. WEIGHT INCLUDES 2% EPOXY WEIGHT C. CONTINUOUS OPERATING TEMPERATURE 130 °C		MAGNETIC CHARACTERISTICS : Mean Magnetic Path (lm) cm 325.15 Net Cross Section Area (Ac) cm ² 5.95 Window Area (Wa) cm ² 7953.98 Area Product (Ap) cm ⁴ 46731.19																																				
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NO.	REV. NO.	DATE	ECN NO.	REVISIONS DETAILS	Checked	Approval																																
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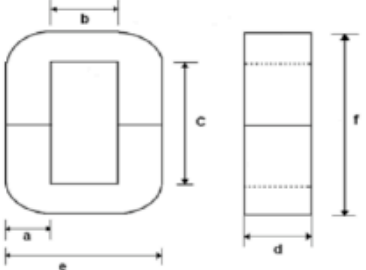
MATERIAL : Amorphous Alloy		PHYSICAL SPECIFICATION :																																				
DIMENSIONS :  UMAT AAABB CC Where : UAMM, Magnetics UM : Amorphous A : Outer Dimension without Casing AAA : Inner Dimension without Casing BB : Height Dimension without Casing CC : Height Dimension without Casing Dimensions: mm Scale: Not To Scale Projection: Third Angle		Outer Diameter (Bare) (OD _b) mm 1100.00 Inner Diameter (Bare) (ID _b) mm 1000.00 Height (Bare) (HT _b) mm 20.00 Outer Diameter (with Reinforcement) (OD _r) mm 1105.00 (Max.) Inner Diameter (with Reinforcement) (ID _r) mm 995.00 (Min.) Height (with Reinforcement) (HT _r) mm 25.00 (Max.) Core Weight (Bare) (grams) 18973.96 Core Weight (with Reinforcement) (grams) 19922.66 ± 3.0 %																																				
NOTE : A. ALL MEASUREMENTS ARE DONE AT ROOM TEMPERATURE B. WEIGHT INCLUDES 2% EPOXY WEIGHT C. CONTINUOUS OPERATING TEMPERATURE 130 °C		MAGNETIC CHARACTERISTICS : Mean Magnetic Path (lm) cm 329.87 Net Cross Section Area (Ac) cm ² 8.00 Window Area (Wa) cm ² 7953.98 Area Product (Ap) cm ⁴ 62831.85																																				
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NO.	REV. NO.	DATE	ECN NO.	REVISIONS DETAILS	Checked	Approval																																
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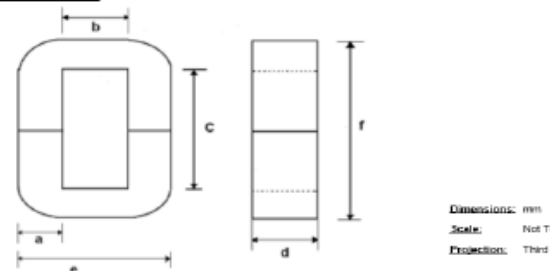


MATERIAL : Amorphous Alloy		PHYSICAL SPECIFICATION :																													
DIMENSIONS :		Outer Diameter (Bare) (OD ₀) mm 1100.00																													
 <p>UMAT AAABB CC Where UM : UMAT Magnetics A : Amorphous AAA : Outer Dimension without Casting BB : Inner Dimension without Casting CC : Height Dimension without casting</p> <p>Dimensions: mm Scale: Not To Scale Projection: Third Angle</p>		Inner Diameter (Bare) (ID ₀) mm 500.00																													
		Height (Bare) (HT ₀) mm 20.00																													
<p>NOTE :</p> <p>A. ALL MEASUREMENTS ARE DONE AT ROOM TEMPERATURE</p> <p>B. WEIGHT INCLUDES 2% EPOXY WEIGHT</p> <p>C. CONTINUOUS OPERATING TEMPERATURE 130 °C</p>		Outer Diameter (with Reinforcement) (OD ₁) mm 1140.00 (Max.)																													
		Inner Diameter (with Reinforcement) (ID ₁) mm 490.00 (Min.)																													
		Height (with Reinforcement) (HT ₁) mm 30.00 (Max.)																													
		Core Weight (Bare) (grams) 92159.25																													
		Core Weight (with Reinforcement) (grams) 96767.21 ± 3.0 %																													
		MAGNETIC CHARACTERISTICS :																													
		Mean Magnetic Path (lm) cm 251.33																													
		Net Cross Section Area (Ac) cm ² 51.00																													
		Window Area (Wa) cm ² 1963.50																													
		Area Product (Ap) cm ⁴ 100138.27																													
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Small C Cores

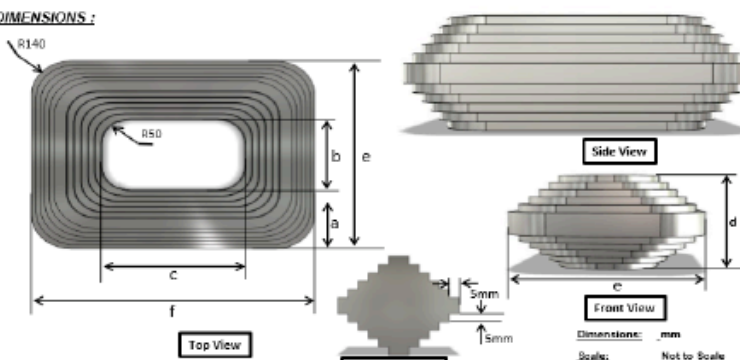


MATERIAL : Iron Based Amorphous Metal		PHYSICAL SPECIFICATION :																													
DIMENSIONS :		Core Build (a) mm 6.00 ± 0.50																													
 <p>Dimensions: mm Scale: Not To Scale Projection: Third Angle</p>		Window Width (b) mm 3.00 ± 0.50																													
		Window Length (c) mm 11.00 ± 0.80																													
<p>NOTE :</p> <p>A. ALL MEASUREMENTS ARE DONE AT ROOM TEMPERATURE</p> <p>B. WEIGHT INCLUDES 2% EPOXY WEIGHT</p> <p>C. CONTINUOUS OPERATING TEMPERATURE 130 °C</p>		Core Height (d) mm 15.00 ± 0.50																													
		Core Width (e) mm 15.00 ± 1.50																													
		Core Length (f) mm 23.00 ± 1.80																													
		Core Weight (grams) 26 ± 3.0 %																													
		MAGNETIC CHARACTERISTICS :																													
		Mean Magnetic Path (lm) cm 4.67																													
		Net Cross Section Area (Ac) cm ² 0.76																													
		Window Area (Wa) cm ² 0.33																													
		Area Product (Ap) cm ⁴ 0.25																													
		ELECTRICAL SPECIFICATION :																													
		Core Loss @ 16.00 kHz: 0.037 W/Kg ≤ 2.50 Watts/Kg																													
		SPECIAL INSTRUCTION :																													
		* b & c dimensions are critical																													
		Core Size : UMCCC -- 0.25																													
		Verification : Prepared and Checked By : 																													
		Feasibility Check and Approved By : 																													
		Customer Approval :																													
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MATERIAL : Iron Based Amorphous Metal		PHYSICAL SPECIFICATION :																													
DIMENSIONS :		Core Build (a) mm 7.50 ± 0.50 Window Width (b) mm 8.40 ± 0.50 Window Length (c) mm 19.40 ± 0.50 Core Height (d) mm 5.00 ± 0.50 Core Width (e) mm 23.40 ± 1.50 Core Length (f) mm 34.40 ± 1.50 Core Weight (grams) 18 ± 3.0 %																													
 <p>Dimensions: mm Scale: Not To Scale Protection: Third Angle</p>		MAGNETIC CHARACTERISTICS : Mean Magnetic Path (lm) cm 7.90 Net Cross Section Area (Ac) cm ² 0.32 Window Area (Wa) cm ² 1.63 Area Product (Ap) cm ⁴ 0.51																													
NOTE : A. ALL MEASUREMENTS ARE DONE AT ROOM TEMPERATURE B. WEIGHT INCLUDES 2% EPOXY WEIGHT C. CONTINUOUS OPERATING TEMPERATURE 130 °C		ELECTRICAL SPECIFICATION : Core Loss @ 16.00 kHz, 0.037 T ≤ 2.50 Watts/Kg																													
		SPECIAL INSTRUCTION :																													
		Core Size : UMCCC -- 1F Verification : Prepared and Checked By: _____ Feasibility Check and Approved By: _____																													
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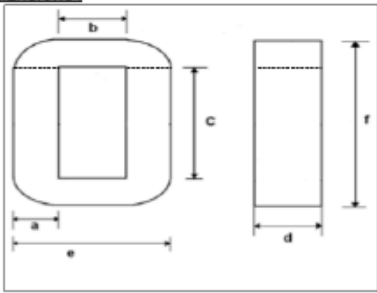
MATERIAL : Iron Based Amorphous Metal		PHYSICAL SPECIFICATION :																													
DIMENSIONS :		Core Build (a) mm 9.50 ± 0.50 Window Width (b) mm 8.40 ± 0.50 Window Length (c) mm 19.40 ± 0.50 Core Height (d) mm 8.00 ± 0.50 Core Width (e) mm 27.40 ± 1.50 Core Length (f) mm 36.40 ± 1.50 Core Weight (grams) 40 ± 3.0 %																													
 <p>Dimensions: mm Scale: Not To Scale Protection: Third Angle</p>		MAGNETIC CHARACTERISTICS : Mean Magnetic Path (lm) cm 8.53 Net Cross Section Area (Ac) cm ² 0.64 Window Area (Wa) cm ² 1.63 Area Product (Ap) cm ⁴ 1.04																													
NOTE : A. ALL MEASUREMENTS ARE DONE AT ROOM TEMPERATURE B. WEIGHT INCLUDES 2% EPOXY WEIGHT C. CONTINUOUS OPERATING TEMPERATURE 130 °C		ELECTRICAL SPECIFICATION : Core Loss @ 16.00 kHz, 0.037 T ≤ 2.50 Watts/Kg																													
		SPECIAL INSTRUCTION :																													
		Core Size : UMCCC -- 1G Verification : Prepared and Checked By: _____ Feasibility Check and Approved By: _____																													
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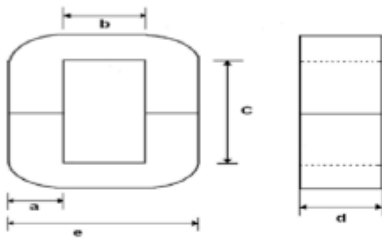
MATERIAL : Fe Based Nanocrystalline Metal		PHYSICAL SPECIFICATION :																													
DIMENSIONS : 		<table border="1"> <tr><td>Core Build</td><td>(a) mm</td><td>7.50 ±</td><td>0.50</td></tr> <tr><td>Window Width</td><td>(b) mm</td><td>8.40 ±</td><td>0.50</td></tr> <tr><td>Window Length</td><td>(c) mm</td><td>19.40 ±</td><td>0.50</td></tr> <tr><td>Core Height</td><td>(d) mm</td><td>5.00 ±</td><td>0.50</td></tr> <tr><td>Core Width</td><td>(e) mm</td><td>23.40 ±</td><td>1.50</td></tr> <tr><td>Core Length</td><td>(f) mm</td><td>34.40 ±</td><td>1.50</td></tr> <tr><td>Core Weight</td><td>(grams)</td><td>18 ±</td><td>3.0 %</td></tr> </table>		Core Build	(a) mm	7.50 ±	0.50	Window Width	(b) mm	8.40 ±	0.50	Window Length	(c) mm	19.40 ±	0.50	Core Height	(d) mm	5.00 ±	0.50	Core Width	(e) mm	23.40 ±	1.50	Core Length	(f) mm	34.40 ±	1.50	Core Weight	(grams)	18 ±	3.0 %
Core Build	(a) mm	7.50 ±	0.50																												
Window Width	(b) mm	8.40 ±	0.50																												
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Core Length	(f) mm	34.40 ±	1.50																												
Core Weight	(grams)	18 ±	3.0 %																												
NOTE : A. ALL MEASUREMENTS ARE DONE AT ROOM TEMPERATURE B. WEIGHT INCLUDES 2% EPOXY WEIGHT C. CONTINUOUS OPERATING TEMPERATURE 130 °C		MAGNETIC CHARACTERISTICS : <table border="1"> <tr><td>Mean Magnetic Path</td><td>(lm) cm</td><td>7.83</td></tr> <tr><td>Net Cross Section Area</td><td>(Ac) cm²</td><td>0.31</td></tr> <tr><td>Window Area</td><td>(Wa) cm²</td><td>1.63</td></tr> <tr><td>Area Product</td><td>(Ap) cm⁴</td><td>0.50</td></tr> </table>		Mean Magnetic Path	(lm) cm	7.83	Net Cross Section Area	(Ac) cm ²	0.31	Window Area	(Wa) cm ²	1.63	Area Product	(Ap) cm ⁴	0.50																
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NO.	REV. NO.	DATE	ECN NO.	REVISIONS DETAILS	Checked	Approval																									
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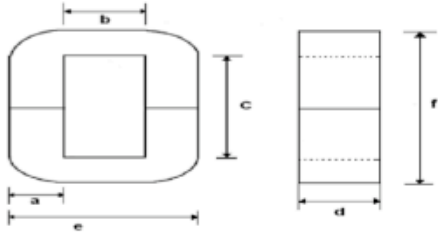
Mutistep C Core

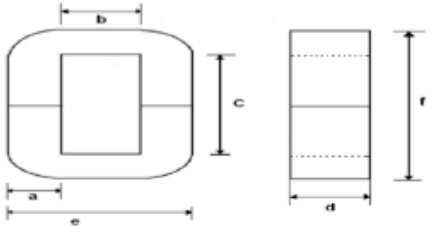
MATERIAL : Iron Based Amorphous Metal		PHYSICAL SPECIFICATION :																													
DIMENSIONS : 		<table border="1"> <tr><td>Core Build</td><td>(a) mm</td><td>90.00 ±</td><td>1.50</td></tr> <tr><td>Window Width</td><td>(b) mm</td><td>150.00 ±</td><td>3.00</td></tr> <tr><td>Window Length</td><td>(c) mm</td><td>300.00 ±</td><td>2.00</td></tr> <tr><td>Core Height</td><td>(d) mm</td><td>90.00 ±</td><td>10.0</td></tr> <tr><td>Core Width</td><td>(e) mm</td><td>330.00 ±</td><td>4.00</td></tr> <tr><td>Core Length</td><td>(f) mm</td><td>480.00 ±</td><td>10.0</td></tr> <tr><td>Core Weight</td><td>(grams)</td><td>48554 ±</td><td>3.0%</td></tr> </table>		Core Build	(a) mm	90.00 ±	1.50	Window Width	(b) mm	150.00 ±	3.00	Window Length	(c) mm	300.00 ±	2.00	Core Height	(d) mm	90.00 ±	10.0	Core Width	(e) mm	330.00 ±	4.00	Core Length	(f) mm	480.00 ±	10.0	Core Weight	(grams)	48554 ±	3.0%
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NOTE : A. ALL MEASUREMENTS ARE DONE AT ROOM TEMPERATURE B. WEIGHT INCLUDES 2% EPOXY WEIGHT C. CONTINUOUS OPERATING TEMPERATURE 130 °C		MAGNETIC CHARACTERISTICS : <table border="1"> <tr><td>Mean Magnetic Path</td><td>(lm) cm</td><td>119.65</td></tr> <tr><td>Net Cross Section Area</td><td>(Ac) cm²</td><td>16.38</td></tr> <tr><td>Window Area</td><td>(Wa) cm²</td><td>450.00</td></tr> <tr><td>Area Product</td><td>(Ap) cm⁴</td><td>24948.00</td></tr> </table>		Mean Magnetic Path	(lm) cm	119.65	Net Cross Section Area	(Ac) cm ²	16.38	Window Area	(Wa) cm ²	450.00	Area Product	(Ap) cm ⁴	24948.00																
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Customer Approval : Company : _____ Approver Name : _____ Signature : _____ Date : _____																															

Large C Cores

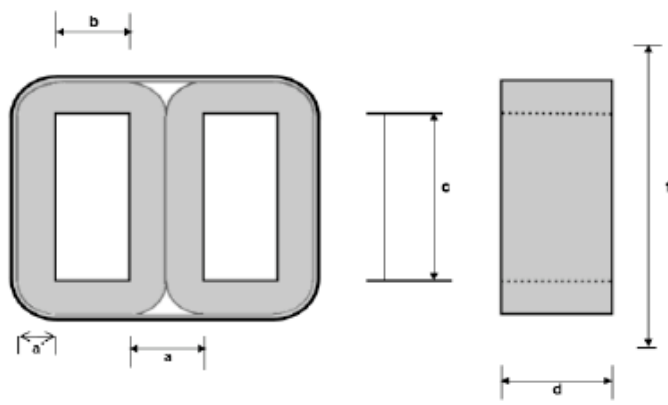


MATERIAL : Iron Based Amorphous Metal Alloy		PHYSICAL SPECIFICATION :																													
DIMENSIONS :		<table border="1"> <tr><td>Core Build</td><td>(a) mm</td><td>45.50</td><td>± 1.50</td></tr> <tr><td>Window Width</td><td>(b) mm</td><td>190.00</td><td>± 1.50</td></tr> <tr><td>Window Length</td><td>(c) mm</td><td>350.00</td><td>± 2.00</td></tr> <tr><td>Core Height</td><td>(d) mm</td><td>142.00</td><td>+ 1.50</td></tr> <tr><td>Core Width</td><td>(e) mm</td><td>281.00</td><td>± 4.50</td></tr> <tr><td>Core Length</td><td>(f) mm</td><td>441.00</td><td>± 5.00</td></tr> <tr><td>Core Weight</td><td>(grams)</td><td>48666</td><td>± 3.0 %</td></tr> </table>		Core Build	(a) mm	45.50	± 1.50	Window Width	(b) mm	190.00	± 1.50	Window Length	(c) mm	350.00	± 2.00	Core Height	(d) mm	142.00	+ 1.50	Core Width	(e) mm	281.00	± 4.50	Core Length	(f) mm	441.00	± 5.00	Core Weight	(grams)	48666	± 3.0 %
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 <p>Dimensions: mm Scale: Not To Scale Projection: Third Angle</p>		MAGNETIC CHARACTERISTICS : Mean Magnetic Path (lm) cm 122.27 Net Cross Section Area (Ac) cm ² 54.27 Window Area (Wa) cm ² 665.00 Area Product (Ap) cm ² 36091.15																													
NOTE :		ELECTRICAL SPECIFICATION :																													
<p>A. ALL MEASUREMENTS ARE DONE AT ROOM TEMPERATURE</p> <p>B. WEIGHT INCLUDES 2% EPOXY WEIGHT</p> <p>C. CONTINUOUS OPERATING TEMPERATURE 130 °C</p>		Core Loss @ 16.00 kHz, 0.037 T ≤ 1.38 Watts/Kg SPECIAL INSTRUCTION : Staking Factor: ≤ 84%																													
		Core Size : UMCCC -- 36091																													
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MATERIAL : Iron Based Amorphous Metal Alloy		PHYSICAL SPECIFICATION :																													
DIMENSIONS :		<table border="1"> <tr><td>Core Build</td><td>(a) mm</td><td>65.00</td><td>± 1.50</td></tr> <tr><td>Window Width</td><td>(b) mm</td><td>137.00</td><td>± 1.50</td></tr> <tr><td>Window Length</td><td>(c) mm</td><td>460.00</td><td>± 2.50</td></tr> <tr><td>Core Height</td><td>(d) mm</td><td>142.00</td><td>+ 1.50</td></tr> <tr><td>Core Width</td><td>(e) mm</td><td>287.00</td><td>± 4.50</td></tr> <tr><td>Core Length</td><td>(f) mm</td><td>590.00</td><td>± 5.50</td></tr> <tr><td>Core Weight</td><td>(grams)</td><td>79487</td><td>± 3.0 %</td></tr> </table>		Core Build	(a) mm	65.00	± 1.50	Window Width	(b) mm	137.00	± 1.50	Window Length	(c) mm	460.00	± 2.50	Core Height	(d) mm	142.00	+ 1.50	Core Width	(e) mm	287.00	± 4.50	Core Length	(f) mm	590.00	± 5.50	Core Weight	(grams)	79487	± 3.0 %
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 <p>Dimensions: mm Scale: Not To Scale Projection: Third Angle</p>		MAGNETIC CHARACTERISTICS : Mean Magnetic Path (lm) cm 139.79 Net Cross Section Area (Ac) cm ² 77.53 Window Area (Wa) cm ² 630.20 Area Product (Ap) cm ² 48860.67																													
NOTE :		ELECTRICAL SPECIFICATION :																													
<p>A. ALL MEASUREMENTS ARE DONE AT ROOM TEMPERATURE</p> <p>B. WEIGHT INCLUDES 2% EPOXY WEIGHT</p> <p>C. CONTINUOUS OPERATING TEMPERATURE 130 °C</p>		Core Loss @ 16.00 kHz, 0.037 T ≤ 1.38 Watts/Kg SPECIAL INSTRUCTION :																													
		Core Size : UMCCC -- 48861																													
		Verification: Prepared and Checked By: _____ Feasibility Check and Approved By: _____																													
<table border="1"> <thead> <tr> <th>NO.</th> <th>REV. NO.</th> <th>DATE</th> <th>ECN NO.</th> <th>REVISIONS DETAILS</th> <th>Checked</th> <th>Approval</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>		NO.	REV. NO.	DATE	ECN NO.	REVISIONS DETAILS	Checked	Approval																						Customer Approval : Company : _____ Approver Name : _____ STAMP Signature : _____ Date : _____	
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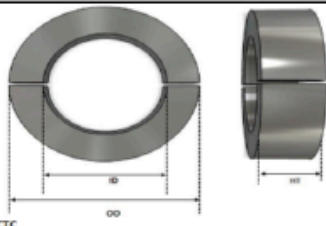


MATERIAL : Iron Based Amorphous Metal Alloy		PHYSICAL SPECIFICATION :																																				
DIMENSIONS :		<table border="0"> <tr><td>Core Build</td><td>(a) mm</td><td>95.00 ±</td><td>1.50</td></tr> <tr><td>Window Width</td><td>(b) mm</td><td>214.00 ±</td><td>2.00</td></tr> <tr><td>Window Length</td><td>(c) mm</td><td>345.00 ±</td><td>2.50</td></tr> <tr><td>Core Height</td><td>(d) mm</td><td>142.00 ±</td><td>1.50</td></tr> <tr><td>Core Width</td><td>(e) mm</td><td>384.00 ±</td><td>5.00</td></tr> <tr><td>Core Length</td><td>(f) mm</td><td>515.00 ±</td><td>5.50</td></tr> <tr><td>Core Weight</td><td>(grams)</td><td>98060 ±</td><td>3.0 %</td></tr> </table>		Core Build	(a) mm	95.00 ±	1.50	Window Width	(b) mm	214.00 ±	2.00	Window Length	(c) mm	345.00 ±	2.50	Core Height	(d) mm	142.00 ±	1.50	Core Width	(e) mm	384.00 ±	5.00	Core Length	(f) mm	515.00 ±	5.50	Core Weight	(grams)	98060 ±	3.0 %							
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 <p>Dimensions: mm Scale: Not To Scale Projection: Third Angle</p>		MAGNETIC CHARACTERISTICS : Mean Magnetic Path (lm) cm 138.47 Net Cross Section Area (Ac) cm ² 96.56 Window Area (Wa) cm ² 738.30 Area Product (Ap) cm ⁴ 71290.25																																				
NOTE :		ELECTRICAL SPECIFICATION :																																				
A. ALL MEASUREMENTS ARE DONE AT ROOM TEMPERATURE B. WEIGHT INCLUDES 2% EPOXY WEIGHT C. CONTINUOUS OPERATING TEMPERATURE 130 °C		Core Loss @ 16.00 kHz: 0.037 T ≤ 1.38 Watts/Kg																																				
		SPECIAL INSTRUCTION :																																				
		Core Size : UMCCC -- 71290																																				
		Verification: Prepared and Checked By: _____ Feasibility Check and Approved By: _____																																				
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MATERIAL : Nano Crystalline		PHYSICAL SPECIFICATION :																																				
DIMENSIONS :		<table border="0"> <tr><td>Core Build</td><td>(a) mm</td><td>50.00 ±</td><td>1.25</td></tr> <tr><td>Window Width</td><td>(b) mm</td><td>180.00 ±</td><td>1.50</td></tr> <tr><td>Window Length</td><td>(c) mm</td><td>400.00 ±</td><td>2.50</td></tr> <tr><td>Core Height</td><td>(d) mm</td><td>40.00 ±</td><td>+1, -0.5</td></tr> <tr><td>Core Width</td><td>(e) mm</td><td>280.00 ±</td><td>4.00</td></tr> <tr><td>Core Length</td><td>(f) mm</td><td>500.00 ±</td><td>5.00</td></tr> <tr><td>Core Weight</td><td>(grams)</td><td>16577 ±</td><td>3.0 %</td></tr> </table>		Core Build	(a) mm	50.00 ±	1.25	Window Width	(b) mm	180.00 ±	1.50	Window Length	(c) mm	400.00 ±	2.50	Core Height	(d) mm	40.00 ±	+1, -0.5	Core Width	(e) mm	280.00 ±	4.00	Core Length	(f) mm	500.00 ±	5.00	Core Weight	(grams)	16577 ±	3.0 %							
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 <p>Dimensions: mm Scale: Not To Scale Projection: Third Angle</p>		MAGNETIC CHARACTERISTICS : Mean Magnetic Path (lm) cm 131.61 Net Cross Section Area (Ac) cm ² 16.80 Window Area (Wa) cm ² 720.00 Area Product (Ap) cm ⁴ 12096.00																																				
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		SPECIAL INSTRUCTION :																																				
		Core Material : Vitroperm 800 Ribbon Thickness : ~18 µm Saturation Flux Density : 1.20 T Packing Factor : 84% Maximum Permeability : >79000 Curie Temperature : >560 °C Electrical Resistivity : < 3.1 µΩ cm Density : 7.35 gm/cc																																				
		Core Size : UMNCC -- 11900																																				
		Verification: Prepared and Checked By: _____ Feasibility Check and Approved By: _____																																				
<table border="1"> <thead> <tr> <th>NO.</th> <th>REV. NO.</th> <th>DATE</th> <th>ECN NO.</th> <th>REVISIONS DETAILS</th> <th>Checked</th> <th>Approval</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>		NO.	REV. NO.	DATE	ECN NO.	REVISIONS DETAILS	Checked	Approval																													Customer Approval : Company : _____ Approver Name : _____ STAMP Signature : _____ Date : _____	
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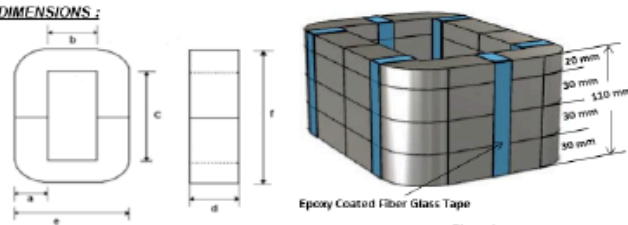
E-Core for Single Phase Applications

CUSTOMER REFERENCE : 		PHYSICAL SPECIFICATIONS : <table border="1"> <tr><td>Outer Limb Build</td><td>(a') mm</td><td>52</td><td>± 1.0</td></tr> <tr><td>Middle Limb Build</td><td>(a) mm</td><td>100.0</td><td>± 1.0</td></tr> <tr><td>Window Width</td><td>(b) mm</td><td>45.0</td><td>± 1.0</td></tr> <tr><td>Window Length</td><td>(c) mm</td><td>355.0</td><td>± 2.0</td></tr> <tr><td>Core Height</td><td>(d) mm</td><td>100.0</td><td>± 1.0</td></tr> <tr><td>Core Width</td><td>(e) mm</td><td>294.0</td><td>± 4.0</td></tr> <tr><td>Core Length</td><td>(f) mm</td><td>458.0</td><td>± 5.0</td></tr> <tr><td>Net Area</td><td>(Ac) cm²</td><td>84.00</td><td></td></tr> <tr><td>Window Area</td><td>(Wa) cm²</td><td>319.5</td><td></td></tr> <tr><td>Area Product</td><td>(Ap) cm⁴</td><td>26838.0</td><td></td></tr> <tr><td>Weight Core</td><td>(gms)</td><td>60768</td><td>± 3%</td></tr> </table>	Outer Limb Build	(a') mm	52	± 1.0	Middle Limb Build	(a) mm	100.0	± 1.0	Window Width	(b) mm	45.0	± 1.0	Window Length	(c) mm	355.0	± 2.0	Core Height	(d) mm	100.0	± 1.0	Core Width	(e) mm	294.0	± 4.0	Core Length	(f) mm	458.0	± 5.0	Net Area	(Ac) cm ²	84.00		Window Area	(Wa) cm ²	319.5		Area Product	(Ap) cm ⁴	26838.0		Weight Core	(gms)	60768	± 3%
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Not to the scale Material : Iron Based Amorphous Metal Alloy		SPECIAL INSTRUCTION Core Size : UMCEC- 26838 Verification : Prepared and Checked By :  Feasibility Check and Approved By :  Date : 10-07-2017																																												
<table border="1"> <thead> <tr> <th>REV NO.</th> <th>DATE</th> <th>ECN NO.</th> <th>REVISION DETAILS</th> <th>CHKED</th> <th>APPD.</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>		REV NO.	DATE	ECN NO.	REVISION DETAILS	CHKED	APPD.																			CUSTOMER APPROVAL : Name : _____ Company : _____ Date : _____ signature _____																				
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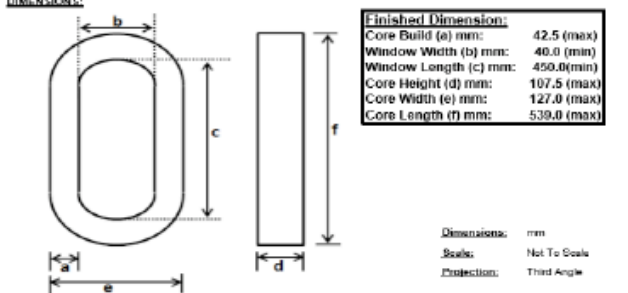
Cut Toroidal Core

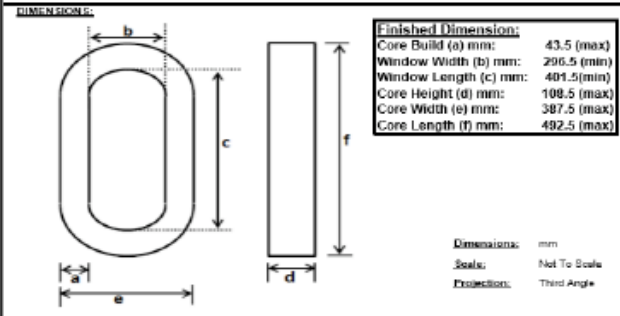
MATERIAL : Fe Based Nanocrystalline Metal		PHYSICAL SPECIFICATION : <table border="1"> <tr><td>Outer Diameter (Bare)</td><td>(OD_b) mm</td><td>125.50</td><td>± 0.2</td></tr> <tr><td>Inner Diameter (Bare)</td><td>(ID_b) mm</td><td>113.50</td><td>± 0.2</td></tr> <tr><td>Height (Bare)</td><td>(HT_b) mm</td><td>8.00</td><td>± 0.2</td></tr> <tr><td>Outer Diameter (with Reinforcement)</td><td>(OD_r) mm</td><td>127.50</td><td>(Max.)</td></tr> <tr><td>Inner Diameter (with Reinforcement)</td><td>(ID_r) mm</td><td>111.50</td><td>(Min.)</td></tr> <tr><td>Height (with Reinforcement)</td><td>(HT_r) mm</td><td>10.00</td><td>(Max.)</td></tr> <tr><td>Core Weight (Bare)</td><td>(grams)</td><td>104.5</td><td>± 3.0 %</td></tr> <tr><td>Core Weight (with Reinforcement)</td><td>(grams)</td><td>111.9</td><td>± 3.0 %</td></tr> </table>		Outer Diameter (Bare)	(OD _b) mm	125.50	± 0.2	Inner Diameter (Bare)	(ID _b) mm	113.50	± 0.2	Height (Bare)	(HT _b) mm	8.00	± 0.2	Outer Diameter (with Reinforcement)	(OD _r) mm	127.50	(Max.)	Inner Diameter (with Reinforcement)	(ID _r) mm	111.50	(Min.)	Height (with Reinforcement)	(HT _r) mm	10.00	(Max.)	Core Weight (Bare)	(grams)	104.5	± 3.0 %	Core Weight (with Reinforcement)	(grams)	111.9	± 3.0 %
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DIMENSIONS :  <p>UMN XAAA BB CTC Where UM: Umil Magnetics N : Nanocrystalline X : Material Grade AAA : Outer Dimension without Casing BB : Height Dimension without casing CTC : Cut Toroidal Core</p> <p>Dimensions: mm Scale: Not To Scale Projection: Third Angle</p>		<table border="1"> <tr><td>Mean Magnetic Path</td><td>(lm) cm</td><td>37.54</td><td></td></tr> <tr><td>Net Cross Section Area</td><td>(Ac) cm²</td><td>0.38</td><td></td></tr> <tr><td>Window Area</td><td>(Wa) cm²</td><td>101.18</td><td></td></tr> <tr><td>Area Product</td><td>(Ap) cm⁴</td><td>38.85</td><td></td></tr> </table>		Mean Magnetic Path	(lm) cm	37.54		Net Cross Section Area	(Ac) cm ²	0.38		Window Area	(Wa) cm ²	101.18		Area Product	(Ap) cm ⁴	38.85																	
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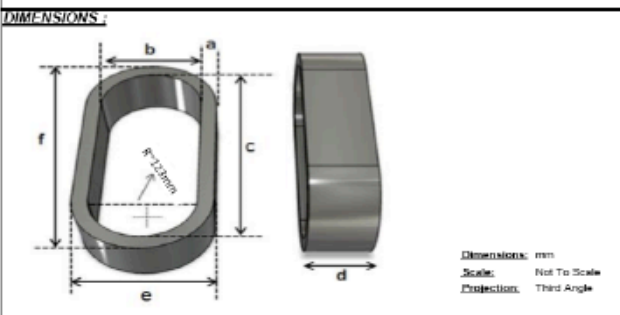
Stacked C Cores

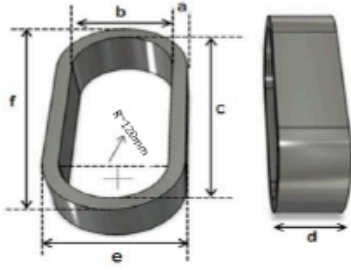
MATERIAL : Fe Based Nanocrystalline Metal		PHYSICAL SPECIFICATION :																													
DIMENSIONS :  <p>Dimensions: mm Scale: Not To Scale Protection: Third Angle</p>		<table border="1"> <tr><td>Core Build (a) mm</td><td>54.00</td><td>±</td><td>1.50</td></tr> <tr><td>Window Width (b) mm</td><td>57.00</td><td>±</td><td>0.50</td></tr> <tr><td>Window Length (c) mm</td><td>174.00</td><td>±</td><td>1.25</td></tr> <tr><td>Core Height (d) mm</td><td>110.00</td><td>±</td><td>1.50</td></tr> <tr><td>Core Width (e) mm</td><td>185.00</td><td>±</td><td>3.50</td></tr> <tr><td>Core Length (f) mm</td><td>282.00</td><td>±</td><td>4.25</td></tr> <tr><td>Core Weight (grams)</td><td>22718</td><td>±</td><td>3.0 %</td></tr> </table>		Core Build (a) mm	54.00	±	1.50	Window Width (b) mm	57.00	±	0.50	Window Length (c) mm	174.00	±	1.25	Core Height (d) mm	110.00	±	1.50	Core Width (e) mm	185.00	±	3.50	Core Length (f) mm	282.00	±	4.25	Core Weight (grams)	22718	±	3.0 %
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		SPECIAL INSTRUCTION : <p>* Three cores of 30mm & one core of 20mm to be stacked to achieve the core height of 110 mm. * Cores would be stacked & wrapped with epoxy coated fiberglass tape.</p>																													
		Core Size : UMNCC -- 4830 (N)																													
		Verification : Prepared and Checked By : _____ Feasibility Check and Approved By : _____																													
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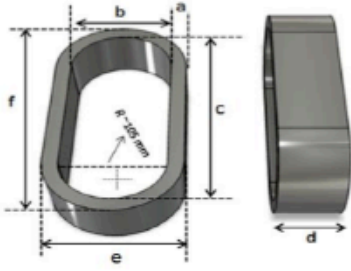
Oval Cores

MATERIAL : Fe Based Nanocrystalline Metal		PHYSICAL SPECIFICATION :																																											
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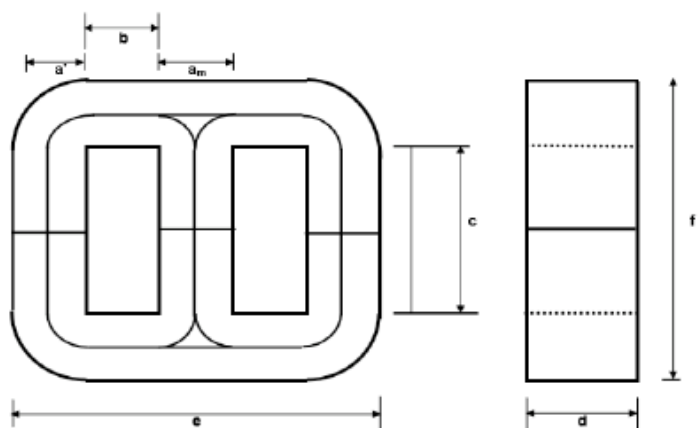
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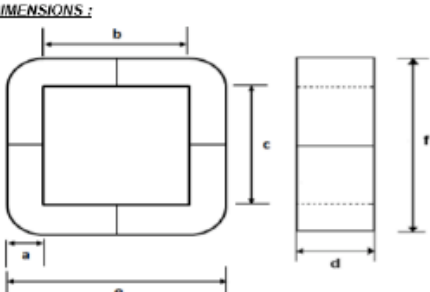
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		Reinforcement: Epoxy Coated FiberGlass Tape																													
		Core Size : UMNOC -- 3164 (N)																													
		Verification																													
		Prepared and Checked By : _____																													
		Feasibility Check and Approved By : _____																													
		Customer Approval :																													
		Company : _____																													
		Approver Name : _____																													
		Signature : _____ Date : _____																													
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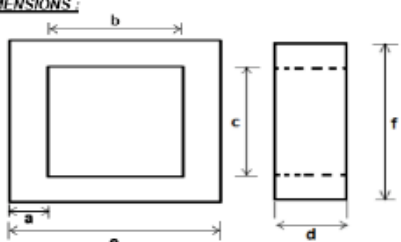
Small E Core

<p>CUSTOMER REFERENCE :</p>  <p>Not to the scale Material : Nanocrystalline Metal</p>		<p>PHYSICAL SPECIFICATIONS :</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Outer Limb Build (a') mm</td><td>4.0</td><td>± 0.5</td></tr> <tr><td>Middle Limb Build (a_m) mm</td><td>6.0</td><td>± 0.5</td></tr> <tr><td>Window Width (b) mm</td><td>4.0</td><td>± 0.5</td></tr> <tr><td>Window Length (c) mm</td><td>40.0</td><td>± 0.5</td></tr> <tr><td>Core Height (d) mm</td><td>6.0</td><td>± 0.5</td></tr> <tr><td>Core Width (e) mm</td><td>22.0</td><td>± 1.5</td></tr> <tr><td>Core Length (f) mm</td><td>24.0</td><td>± 1.5</td></tr> <tr><td>Net Area (Ac) cm²</td><td>0.3</td><td></td></tr> <tr><td>Window Area (Wa) cm²</td><td>3.2</td><td></td></tr> <tr><td>Area Product (Ap) cm⁴</td><td>1.0</td><td></td></tr> <tr><td>Weight Core (gms)</td><td>30.2</td><td>± 3%</td></tr> </table> <p>SPECIAL INSTRUCTION</p> <p>Core Size : UMNEDC- 1</p> <p>Verification : Prepared and Checked By : <i>[Signature]</i></p> <p>Feasibility Check and Approved By : <i>[Signature]</i></p> <p>Date : 10-07-2017</p> <p>CUSTOMER APPROVAL: Name : _____ Company : _____ Date : _____ signature _____</p>	Outer Limb Build (a') mm	4.0	± 0.5	Middle Limb Build (a_m) mm	6.0	± 0.5	Window Width (b) mm	4.0	± 0.5	Window Length (c) mm	40.0	± 0.5	Core Height (d) mm	6.0	± 0.5	Core Width (e) mm	22.0	± 1.5	Core Length (f) mm	24.0	± 1.5	Net Area (Ac) cm ²	0.3		Window Area (Wa) cm ²	3.2		Area Product (Ap) cm ⁴	1.0		Weight Core (gms)	30.2	± 3%
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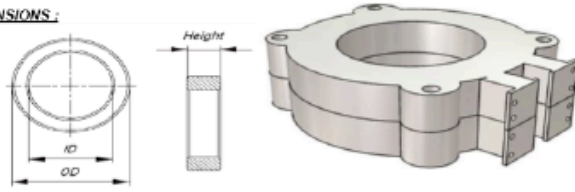
Multicut C Core

<p>MATERIAL : Fe Based Nanocrystalline Metal</p> <p>DIMENSIONS :</p>  <p>Dimensions: mm Scale: Not To Scale Projection: Third Angle</p> <p>NOTE :</p> <p>A. ALL MEASUREMENTS ARE DONE AT ROOM TEMPERATURE B. WEIGHT INCLUDES 2% EPOXY WEIGHT C. CONTINUOUS OPERATING TEMPERATURE 130 °C</p>		<p>PHYSICAL SPECIFICATION :</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Core Build (a) mm</td><td>25.00</td><td>± 1.00</td></tr> <tr><td>Window Width (b) mm</td><td>256.00</td><td>± 1.00</td></tr> <tr><td>Window Length (c) mm</td><td>314.00</td><td>± 2.00</td></tr> <tr><td>Core Height (d) mm</td><td>50.00</td><td>± 1.00</td></tr> <tr><td>Core Width (e) mm</td><td>306.00</td><td>± 4.00</td></tr> <tr><td>Core Length (f) mm</td><td>364.00</td><td>± 4.00</td></tr> <tr><td>Core Weight (grams)</td><td>9230</td><td>± 3.0 %</td></tr> </table> <p>MAGNETIC CHARACTERISTICS :</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Mean Magnetic Path (lm) cm</td><td>121.76</td></tr> <tr><td>Net Cross Section Area (Ac) cm²</td><td>10.25</td></tr> <tr><td>Window Area (Wa) cm²</td><td>803.84</td></tr> <tr><td>Area Product (Ag) cm⁴</td><td>8239.36</td></tr> </table> <p>ELECTRICAL SPECIFICATION :</p> <p>Core Loss @ 16.00 KHz: 0.037 T ≤ 0.50 Watts/Kg</p> <p>SPECIAL INSTRUCTION :</p> <p>Core Size : UMNCC -- 8239</p> <p>Verification : Prepared and Checked By : <i>[Signature]</i></p> <p>Feasibility Check and Approved By : <i>[Signature]</i></p> <p>Customer Approval : Company : _____ Approver Name : _____ STAMP Signature : _____ Date : _____</p>	Core Build (a) mm	25.00	± 1.00	Window Width (b) mm	256.00	± 1.00	Window Length (c) mm	314.00	± 2.00	Core Height (d) mm	50.00	± 1.00	Core Width (e) mm	306.00	± 4.00	Core Length (f) mm	364.00	± 4.00	Core Weight (grams)	9230	± 3.0 %	Mean Magnetic Path (lm) cm	121.76	Net Cross Section Area (Ac) cm ²	10.25	Window Area (Wa) cm ²	803.84	Area Product (Ag) cm ⁴	8239.36
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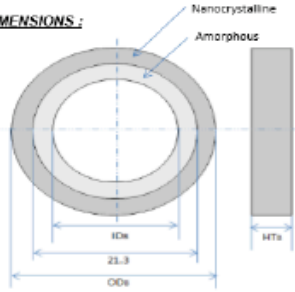


Rectangular Core

MATERIAL : Fe Based Nanocrystalline Metal		PHYSICAL SPECIFICATION :																									
DIMENSIONS :  <p>Dimensions: mm Scale: Not To Scale Projection: Third Angle</p>		<table border="1"> <thead> <tr> <th></th> <th>Bare Core Dim.</th> <th>Finished Dim.</th> </tr> </thead> <tbody> <tr> <td>Core Build</td> <td>(a) mm 20.00 ± 0.50</td> <td>24.0 max</td> </tr> <tr> <td>Window Width</td> <td>(b) mm 88.00 ± 0.50</td> <td>84.0 min</td> </tr> <tr> <td>Window Length</td> <td>(c) mm 108.00 ± 0.50</td> <td>104.0 min</td> </tr> <tr> <td>Core Height</td> <td>(d) mm 20.00 ± 0.50</td> <td>24.0 max</td> </tr> <tr> <td>Core Width</td> <td>(e) mm 128.00 ± 1.00</td> <td>132.0 max</td> </tr> <tr> <td>Core Length</td> <td>(f) mm 148.00 ± 1.00</td> <td>152.0 max</td> </tr> <tr> <td>Core Weight</td> <td>(grams) 1145 ± 3.0 %</td> <td>1366 ± 3.0 %</td> </tr> </tbody> </table>			Bare Core Dim.	Finished Dim.	Core Build	(a) mm 20.00 ± 0.50	24.0 max	Window Width	(b) mm 88.00 ± 0.50	84.0 min	Window Length	(c) mm 108.00 ± 0.50	104.0 min	Core Height	(d) mm 20.00 ± 0.50	24.0 max	Core Width	(e) mm 128.00 ± 1.00	132.0 max	Core Length	(f) mm 148.00 ± 1.00	152.0 max	Core Weight	(grams) 1145 ± 3.0 %	1366 ± 3.0 %
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NOTE : A. ALL MEASUREMENTS ARE DONE AT ROOM TEMPERATURE B. WEIGHT INCLUDES 2% EPOXY WEIGHT C. CONTINUOUS OPERATING TEMPERATURE 130 °C		MAGNETIC CHARACTERISTICS : Mean Magnetic Path (lm) cm 47.20 Net Cross Section Area (Ac) cm ² 3.28 Window Area (Wa) cm ² 95.04 Area Product (Ap) cm ⁴ 311.7 ELECTRICAL SPECIFICATION : At 10 Hz, 26 Turns <table border="1"> <thead> <tr> <th>B (Tesla)</th> <th>H (A/cm)</th> </tr> </thead> <tbody> <tr> <td>0.1</td> <td>0.005</td> </tr> <tr> <td>0.3</td> <td>0.01</td> </tr> <tr> <td>0.5</td> <td>0.012</td> </tr> <tr> <td>0.7</td> <td>0.014</td> </tr> </tbody> </table>		B (Tesla)	H (A/cm)	0.1	0.005	0.3	0.01	0.5	0.012	0.7	0.014														
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NO.	REV. NO.	DATE	ECN NO.	REVISIONS DETAILS	Checked	Approval																					
CUSTOMER APPROVAL : Company : _____ Approver Name : _____ STAMP Signature : _____ Date : _____		_____																									
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Welding Transformer Core

MATERIAL : Fe Based Nanocrystalline Metal		PHYSICAL SPECIFICATION :																									
DIMENSIONS :  <p>UMNT XAAABBCC WHERE UM : Umi Magnetics N : Nano Crystalline T : Toroidal X : Material Grade AAA : Outer Dimension without casing BB : Inner Dimension without casing CC : Height Dimension without Casing</p> <p>Dimensions: mm Scale: Not To Scale Projection: Third Angle</p>		<table border="1"> <tbody> <tr> <td>Outer Diameter (Bare)</td> <td>(OD_b) mm</td> <td>100.00</td> </tr> <tr> <td>Inner Diameter (Bare)</td> <td>(ID_b) mm</td> <td>60.00</td> </tr> <tr> <td>Height (Bare)</td> <td>(HT_b) mm</td> <td>20.00</td> </tr> <tr> <td>Outer Diameter (with Reinforcement)</td> <td>(OD_a) mm</td> <td>105.00 (Max.)</td> </tr> <tr> <td>Inner Diameter (with Reinforcement)</td> <td>(ID_a) mm</td> <td>56.00 (Min.)</td> </tr> <tr> <td>Height (with Reinforcement)</td> <td>(HT_a) mm</td> <td>25.00 (Max.)</td> </tr> <tr> <td>Core Weight (Bare)</td> <td>(grams)</td> <td>583.1 ± 3.0 %</td> </tr> <tr> <td>Core Weight (with Reinforcement)</td> <td>(grams)</td> <td>624.5 ± 3.0 %</td> </tr> </tbody> </table>		Outer Diameter (Bare)	(OD _b) mm	100.00	Inner Diameter (Bare)	(ID _b) mm	60.00	Height (Bare)	(HT _b) mm	20.00	Outer Diameter (with Reinforcement)	(OD _a) mm	105.00 (Max.)	Inner Diameter (with Reinforcement)	(ID _a) mm	56.00 (Min.)	Height (with Reinforcement)	(HT _a) mm	25.00 (Max.)	Core Weight (Bare)	(grams)	583.1 ± 3.0 %	Core Weight (with Reinforcement)	(grams)	624.5 ± 3.0 %
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NOTE : A. ALL MEASUREMENTS ARE DONE AT ROOM TEMPERATURE B. CONTINUOUS OPERATING TEMPERATURE 130 °C		MAGNETIC CHARACTERISTICS : Mean Magnetic Path (lm) cm 25.13 Net Cross Section Area (Ac) cm ² 3.20 Window Area (Wa) cm ² 28.27 Area Product (Ap) cm ⁴ 80.48 ELECTRICAL SPECIFICATION : AL Value : 48.00 μH (±30%) @ 10KHz Core Loss @ 20KHz, 0.2T ≤ 4.0 W/Kg Special Instruction : Reinforcement : Plastic Casing Core Size : UMNT- A01006020(S) Verification : Prepared and Checked By : _____ Feasibility Check and Approved By : _____																									
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Composite Core

MATERIAL : Composite (Amorphous+Nanocrystalline)		PHYSICAL SPECIFICATION :																																				
DIMENSIONS : 		Outer Diameter (Bare) (OD _b) mm 24.50 Inner Diameter (Bare) (ID _b) mm 16.60 Height (Bare) (HT _b) mm 8.00 Outer Diameter (with Reinforcement) (OD _r) mm 27.00 (Max.) Inner Diameter (with Reinforcement) (ID _r) mm 14.00 (Min.) Height (with Reinforcement) (HT _r) mm 10.50 (Max.) Core Weight (Bare) (grams) 11.6 ± 3.0 % Core Weight (with Reinforcement) (grams) 12.6 ± 3.0 %																																				
UMNT XAAABBCC WHERE UM : Uam Magnetic 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		MAGNETIC CHARACTERISTICS : Mean Magnetic Path (lm) cm 6.46 Net Cross Section Area (Ac) cm ² 0.24 Window Area (Wa) cm ² 0.00 Area Product (Ap) cm ⁴ 0.53																																				
NOTE : A. ALL MEASUREMENTS ARE DONE AT ROOM TEMPERATURE B. CONTINUOUS OPERATING TEMPERATURE 130°C		ELECTRICAL SPECIFICATION : $\mu \geq 84,000 @ 50\text{Hz} \ \& \ 0.8\text{mA/cm}$ (for Nanocrystalline core) $1,100 \times \mu \times 1400 @ 1\text{KHz} \ \& \ 1\text{V}$ (for Amorphous Core)																																				
REVISIONS		Special Instruction : Reinforcement : Plastic Box (Nylon 66 30% Glass Filled)																																				
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NO.	REV. NO.	DATE	ECN NO.	REVISIONS DETAILS	Checked	Approved																																
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