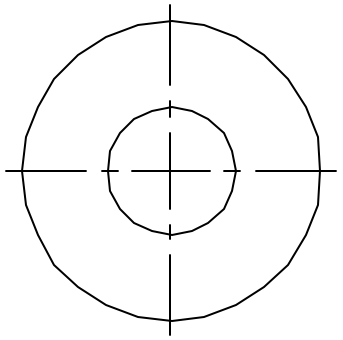
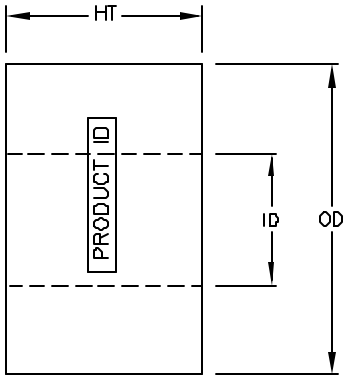
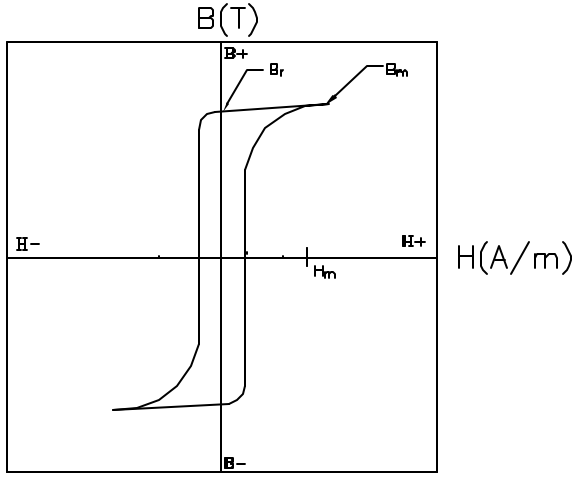
MP1603M4AS







TYPICAL B–H LOOP

Coated Core Specifications				Bare Core Specifications		
PART NO.	OD mm	ID mm	HT mm	OD mm	ID mm	HT mm
MP1603M4AS	17.14	12.16	4.70	15.93	12.70	3.175
Tolerance (mm)	max.	min.	max.			

Core Designation	Material DuPont	Manufacturer UL File #	Insulation System
M	EFB534S0	E206123	ClassB/ClassF

Performance Specifications						
l_m	A_c	Mass	Vol	W_a	W_aA_c	Core Loss
cm	cm^2	g	cm^3	cm^2	cm^4	W
4.50	0.041	1.40	0.18	1.16	0.0476	≤0.3286

Core Loss is measured at 50 kHz/0.5 Oe.

Sq Ratio [1]	B_{sat}	B_r [1]	Total [2] Flux
B_r/B_m	tesla	tesla	μWb
≥84%	0.57	≥ 0.45	4.7

1 Measured at 5 kHz and 0.5 Oe(H_m)

2 Calculated value.

l_m = mean magnetic path length
A_c = net cross–sectional area
W_a = core window area

NOTE:

1. PART IDENTIFICATION CODE AND MANUFACTURING DATE CODE IS PRINTED ON CURVED SURFACE.
2. MINIMUM COATING THICKNESS OF 0.127 mm (5 MILS) ON ANY POINT OF CORE IS MAINTAINED.
3. ALL MEASUREMENTS WERE MEASURED AT ROOM TEMPERATURE.
4. OVALITY OF 95% ON OUTER AND INNER DIAMETER IS PERMISSIBLE.

TOLERANCES: MASS ±3%

CORE MATERIAL:
METGLAS® ALLOY 2714A.

NOTE: ANY REVISION MADE TO THIS DRAWING MUST BE REFLECTED ON THE CORRESPONDING ISO DOCUMENT. THIS DRAWING IS NOT TO SCALE.

No	Revision	Approved by	Date
0	First release.	RH,RM,ST	07/19/01
1	Core loss changed from 212 to 235watts/Kg (PCN001)	RM,ST	12/20/02

Honeywell
METGLAS® Solutions
CONWAY, SC 29526.

Part #	Drawn by	Date	Checked by	Date
MP1603M4AS	SR	07/12/01	SR	07/19/01

MAGAMP Magnetic Toroidal Cores