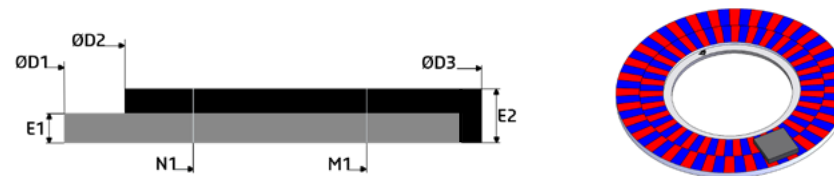


AXIAL NONIUS MAGNET RINGS

DATA SHEET FOR STANDARD PARTS



MAGNETIC FEATURES

ITEM	PARAMETER	HUT128A32	HUT128A64	HUT150A32	HUT150A64	HUT200A16	HUT200A32	HUT220A32	HUT200A64
N1	Number of pole pairs on Nonius track	31	63	31	63	15	31	31	63
	Scanning reading diameter of Nonius track	18,88 mm	44,95 mm	23,36 mm	53,90 mm	12,40 mm	32,80 mm	36,82 mm	73,50 mm
	Pole width of Nonius track	0,96 mm	1,12 mm	1,18 mm	1,34 mm	1,30 mm	1,66 mm	1,87 mm	1,83 mm
M1	Number of pole pairs on master track	32	64	32	64	16	32	32	64
	Scanning reading diameter of master track	26,08 mm	52,15 mm	30,56 mm	61,10 mm	20,40 mm	40,80 mm	44,82 mm	81,50 mm
	Pole width of master track	1,28 mm	1,28 mm	1,50 mm	1,50 mm	2,00 mm	2,00 mm	2,20 mm	2,00 mm

> MATERIAL CHARACTERISTICS

Br	Remanence @20°C	190 mT
Tc	Temperature coefficient of the remanence	-0,19 %/K
	Coercitivity field	240 KA/m

> RECOMMENDED CHIP USAGE

iC-Haus chips reference	iC-MU	iC-MU	iC-MU150	iC-MU150	iC-MU200	iC-MU200	iC-MU200	iC-MU200
Radial position of chip center <i>referred to axial center</i>	11,24 mm	24,28 mm	13,48 mm	28,75 mm	8,20 mm	18,40 mm	20,41 mm	38,75 mm
Recommended mechanical air gap <i>referred to magnetic coating surface</i>	0,40 mm	0,40 mm	0,40 mm	0,40 mm	0,60 mm	0,60 mm	0,60 mm	0,60 mm
LSB limit value under control (Min & Max)	60 %							

MECHANICAL FEATURES

HUTCHINSON PART NUMBER		789890	789933	789837	789612	789880	789980	789985	789869	789909	789987	789932
ØD1	Ring inner diameter (mm)	15,00 ^{+0,03} _{-0,02}	38,00 ^{+0,03} _{-0,02}	18,00 ^{+0,03} _{-0,02}	8,00 ^{+0,05} _{-0,00}	47,40 ^{+0,03} _{-0,02}	35,50 ^{+0,03} _{-0,02}	8,00 ^{+0,03} _{-0,02}	25,00 ^{+0,05} _{-0,00}	28,9 ^{+0,03} _{-0,02}	31,50 ^{+0,025} _{0,00}	62,00 ^{+0,03} _{-0,02}
ØD2	Magnetic track inner diameter (mm)	16,00 ^{+0,1} _{-0,1}	41,00 ^{+0,1} _{-0,1}	20,50 ^{+0,1} _{-0,1}	20,50 ^{+0,1} _{-0,1}	49,90 ^{+0,1} _{-0,1}	49,90 ^{+0,1} _{-0,1}	10,00 ^{+0,1} _{-0,1}	29,10 ^{+0,1} _{-0,1}	30,00 ^{+0,1} _{-0,1}	32,80 ^{+0,1} _{-0,1}	70,00 ^{+0,1} _{-0,1}
ØD3	Ring outer diameter (mm)	29,00 ^{+0,2} _{-0,2}	56,00 ^{+0,2} _{-0,2}	34,50 ^{+0,2} _{-0,2}	34,50 ^{+0,2} _{-0,2}	65,10 ^{+0,2} _{-0,2}	65,10 ^{+0,2} _{-0,2}	24,00 ^{+0,2} _{-0,2}	44,50 ^{+0,2} _{-0,2}	44,50 ^{+0,2} _{-0,2}	49,00 ^{+0,1} _{-0,05}	85,00 ^{+0,2} _{-0,2}
E1	Stainless steel insert thickness (mm)	0,60	0,60	0,60	0,60	0,60	0,60	0,50	0,60	0,60	1	1
E2	Total thickness (mm)	1,10 ^{+0,1} _{-0,1}	1,10 ^{+0,1} _{-0,1}	1,10 ^{+0,1} _{-0,1}	1,10 ^{+0,1} _{-0,1}	1,10 ^{+0,1} _{-0,1}	1,10 ^{+0,1} _{-0,1}	1,30 ^{+0,1} _{-0,1}	1,40 ^{+0,1} _{-0,1}	1,40 ^{+0,1} _{-0,1}	2,00 ^{+0,1} _{-0,1}	1,80 ^{+0,1} _{-0,1}
Magnet ring operating ambient temperature range		-40 to 140 °C										

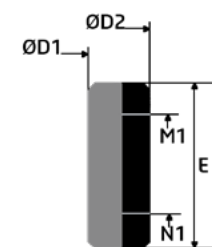
External fields can change the functional properties and may reduce system accuracy or damage the disc magnetization. The functionality of the system may no longer be ensured.
Direct contact with magnetic clamps or other permanent magnets must be avoided.



RADIAL NONIUS MAGNET RINGS

DATA SHEET FOR STANDARD PARTS

MAGNETIC FEATURES							
ITEM	PARAMETER	HUT128R32		HUT150R64			
N1	Number of pole pairs on Nonius track	31		63	63		
	Scanning reading position of Nonius track	1,2 mm		2,2 mm	1,7 mm		
	Pole width of Nonius track (°)	360/62		360/126	360/126		
M1	Number of pole pairs on master track	32		64	64		
	Scanning reading position of master track	4,8 mm		5,8 mm	5,3 mm		
	Pole width of master track (°)	360/64		360/128	360/128		
> MATERIAL CHARACTERISTICS							
Br	Remanence @20°C	190 mT					
Tc	Temperature coefficient of the remanence	-0,19 %/K					
	Coercitivity field	240 KA/m					
> RECOMMENDED CHIP USAGE							
iC-Haus chips reference		iC-MU		iC-MU150			
Radial position of chip center <i>referred to axial center</i>		3 mm		4 mm	3,5 mm		
Recommended mechanical air gap <i>referred to magnetic coating surface</i>		0,40 mm		0,40 mm	0,40 mm		
LSB limit value under control (Min & Max)		60 %					
MECHANICAL FEATURES							
HUTCHINSON PART NUMBER		789894		789892		789951	
ØD1	Ring inner diameter (mm)	20,00	+0,021 -0,00	53,10	+0,03 -0,00	52,60	+0,03 -0,00
ØD2	Ring outer diameter (mm)	24,50	+0,05 -0,05	59,60	+0,15 -0,15	59,60	+0,15 -0,15
E	Height (mm)	6	+0,1 -0,1	8	+0,2 -0,0	7	+0,2 -0,0
Magnet ring operating ambient temperature range		-40 to 140 °C					



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