MU35S 56-64N

preliminary (CHaus

IC-MU MAGNETIC TARGET DESCRIPTION

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ORDERING INFORMATION

Type Order Destination Description/Options

Magnetic target (rotary, axial) N

MU35S 56-64N 2-Track axial magnetic target for use with iC-MU non-

ius encoder iC

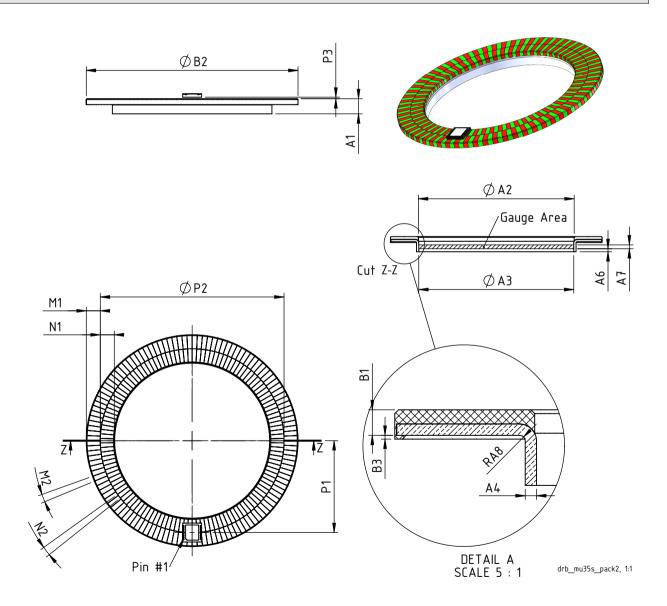
Bipolar magnetized

Number of pole pairs: master 64, nonius 63 Outer diameter 56 mm, for 41.0 mm shafts

Deep-drawn metal carrier with vulcanized rubber

magnet material

CODE DISC DIMENSIONS



Notice: Interference in function

External magnetic 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.

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ABSOLUTE MAXIMUM RATINGS

Beyond these values damage may occur; device operation is not guaranteed.

Item	Symbol	Parameter	Conditions			Unit
No.				Min.	Max.	
G001	Bext	Max. External Magnetic Field Strength	at disc surface		20	mT

THERMAL DATA

Operation conditions: No changes of the magnetic characteristics

Item	Symbol	Parameter	Conditions			Unit	
No.				Min.	Тур.	Max.	
T01	Та	Operating Ambient Temperature Range		-40		110	°C

DIMENSION TABLE

Item No.	Parameter	Comments	Min.	Тур.	Max.	Tolerance	Unit
	│ al Dimensions Disc		141111.	Typ.	IVIAA.	Tolerance	
A1	Total Height			4.0		±0.15	mm
A2	Inner Diameter of magnetic rubber material			41.2		±0.13	mm
A3	Diameter of Gauge Area			41.0		-0.07 / -0.20	mm
A4	Thickness of Metal Carrier			0.6			mm
A6	Distance Gauge Area vs. Edge			0.8			mm
A7	Height Gauge Area			1.0			mm
A8	Radius of Metal Carrier				0.3		mm
Physic	al Dimensions Magnetic Coating	1					
B1	Height of Magnetic Material and Carrier			1.35			mm
B2	Outer Diameter of magnetic material			56.0		±0.1	mm
В3	Allowable magnetic material protrusion			0.2			mm
Magne	tic Dimensions Master Track						
M1	Width of Master Track			3.7			mm
M2	Pole Pitch of Master Track			360 128			deg
Magne	tic Dimensions Nonius Track	J		120			
N1	Width of Nonius Track			3.7			mm
N2	Pole Pitch of Nonius Track			360 126			deg
Chip P	osition						
P1	Radial Position of Chip Center	referred to axial center		24.3			mm
P2	Borderline Master / Nonius Track			48.6			mm
P3	Distance Package Surface DFN16-5x5	referred to magnetic coating surface		0.4			mm
Magne	tic Material Characteristics						
Br	Remanence	at 20 °C		288			mT
TKB	Temperature Coefficient of Remanence	temperature range -40 °C to 110 °C		-0.91			%/K
Mecha	nical Characteristics						
Wt	Weight			9.8			g

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REVISION HISTORY

Rel.	Rel. Date*	Chapter	Modification	Page
A1	2019-07-16		Initial Release	

Rel.	Rel. Date*	Chapter	Modification	Page
A2	2020-01-29	ORDERING INFORMATION	Corrected typo	1

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Release Date format: YYYY-MM-DD