

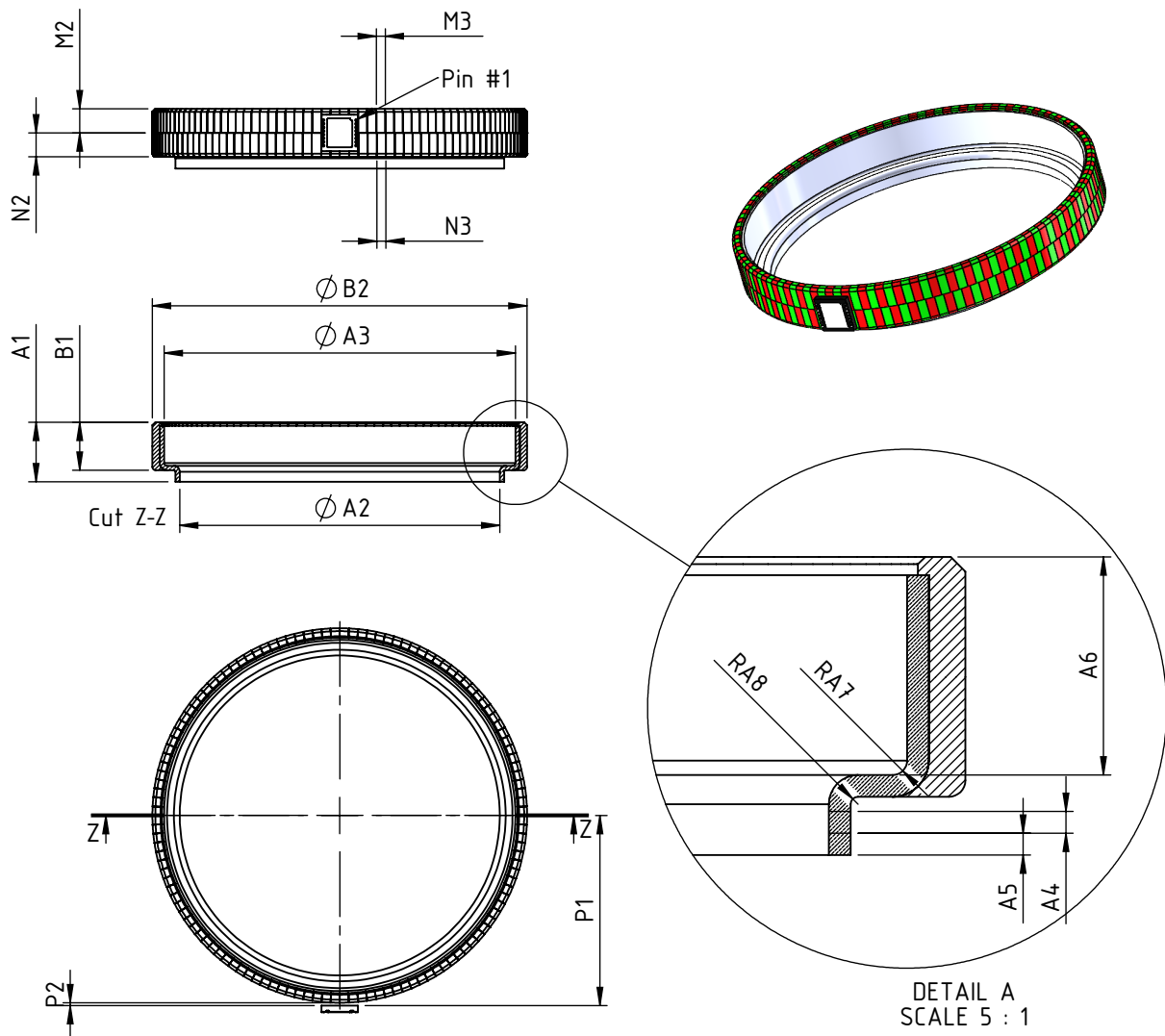
# MU26S 52-64N

## iC-MU MAGNETIC TARGET DESCRIPTION

### ORDERING INFORMATION

Type	Order Destination	Description/Options
Magnetic target (rotary, radial)	MU26S 52-64N	2-Track radial magnetic target for use with iC-MU nonius encoder iC Bipolar magnetized Number of pole pairs: master 64, nonius 63 Outer diameter 51.5 mm, for 44.0 mm shafts Deep-drawn metal carrier with vulcanized rubber magnet material

### CODE DISC DIMENSIONS



drb\_mu26s\_pack2, 1:1

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

### THERMAL DATA

Operation conditions: No changes of the magnetic characteristics

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

### DIMENSION TABLE

Item No.	Parameter	Comments	Min.				Typ.				Max.				Unit
<b>Physical Dimensions Disc</b>															
A1	Total Height							8.2						mm	
A2	Diameter of gauge area	fitting surface						44.0				-0.07 / -0.2		mm	
A3	Inner diameter above gauge area							48.3				±0.1		mm	
A4	Height of gauge area							0.6						mm	
A5	Offset of gauge area							0.6						mm	
A6	Height seating area to top of magnetic material							6.0				±0.15		mm	
RA7	Radius							0.4						mm	
RA8	Radius							0.2						mm	
<b>Physical Dimensions Magnetic Coating</b>															
B1	Height Magnetic Material							6.6				±0.15		mm	
B2	Outer Diameter of magnetic material							51.5				±0.1		mm	
<b>Magnetic Dimensions Master Track</b>															
M2	Height of Master Track							3.3						mm	
M3	Pole Pitch of Master Track							$\frac{360}{128}$						deg	
<b>Magnetic Dimensions Nonius Track</b>															
N2	Height of Nonius Track							3.3						mm	
N3	Pole Pitch of Nonius Track							$\frac{360}{126}$						deg	
<b>Chip Position</b>															
P1	Radial Position of Chip Center	referred to axial center						26.15						mm	
P2	Distance Package Surface DFN16-5x5	referred to magnetic coating surface						0.4						mm	
<b>Magnetic Material Characteristics</b>															
Br	Remanence	at 20 °C						288						mT	
TKB	Temperature Coefficient of Remanence	temperature range -40 °C to 110 °C						-0.19						%/K	
Bpp	Magnetic Field Amplitude	at distance 0.75 mm surface bare die to magnetic coating					10							mT	
<b>Mechanical Characteristics</b>															
Wt	Weight							10.7						g	

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### REVISION HISTORY

Rel.	Rel. Date*	Chapter	Modification	Page
A1	2018-12-04		Initial Release	

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\* Release Date format: YYYY-MM-DD