

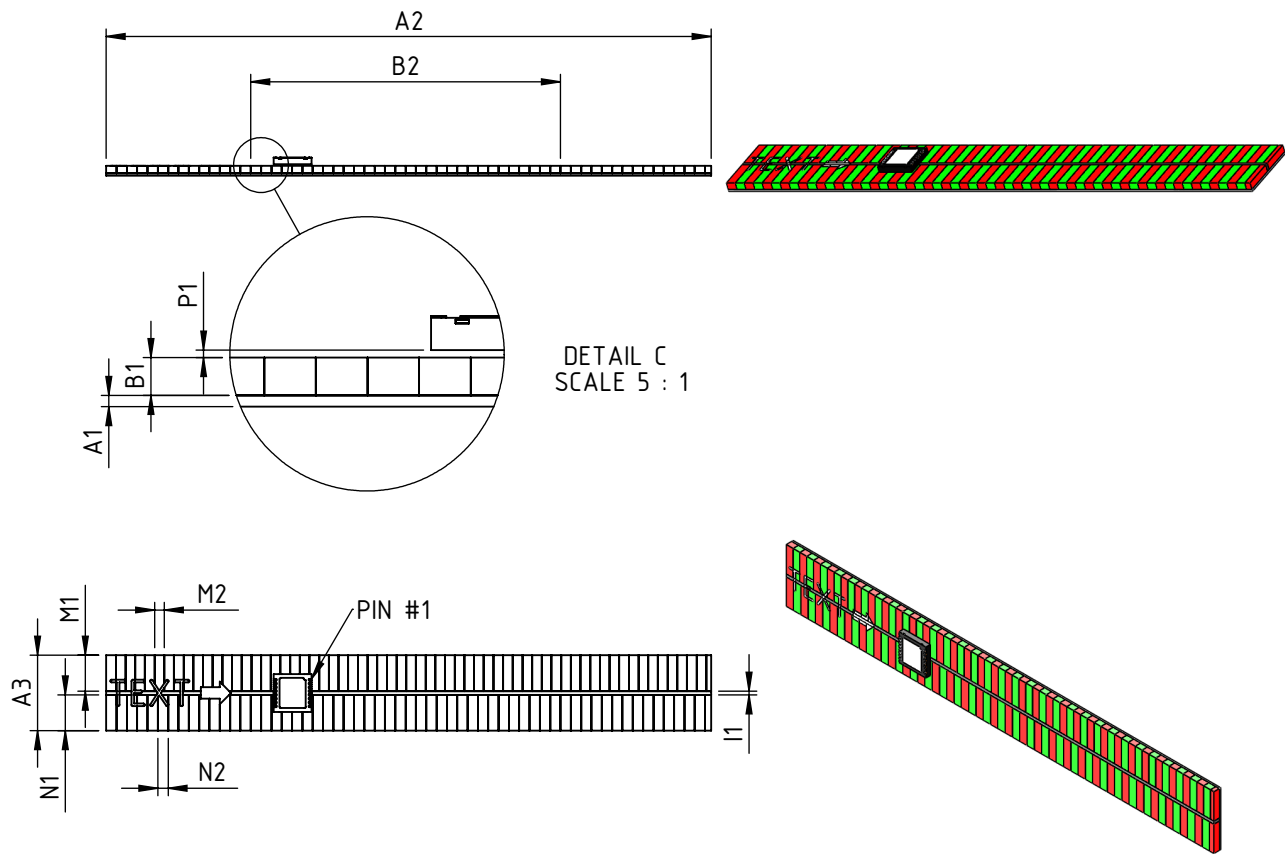
MU1L 41-16N

iC-MU MAGNETIC TAPE DESCRIPTION

ORDERING INFORMATION

Type	Order Destination	Description/Options
Magnetic tape	MU1L 41-16N	2-track nonius magnetic tape Number of pole pairs: master 16, nonius 15 Total length: 80 mm Absolute measurement range: 40.96 mm Carrier material: steel 1.4310K2

TAPE DIMENSIONS



drb_mu1l_pack2, 1:1

<TEXT> indicates tape orientation. When readable the master track is the upper track.

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ABSOLUTE MAXIMUM RATINGS

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

Item No.	Symbol	Parameter	Conditions			Unit
				Min.	Max.	
G001	Bext	Maximum External Magnetic Field Strength		-20	20	mT

THERMAL DATA

Operation conditions: No changes of the magnetic characteristics

Item No.	Symbol	Parameter	Conditions				Unit
				Min.	Typ.	Max.	
T01	Ta	Operating Ambient Temperature Range		-40		100	°C

DIMENSION TABLE

Item No.	Parameter	Comments					Unit
			Min.	Typ.	Max.	Tolerance	
Physical Dimensions Carrier							
A1	Carrier Height			0.30		mm	
A2	Carrier Length			80.0		mm	
A3	Carrier Width			10.0	±0.15	mm	
Physical Dimensions Magnetic Coating							
B1	Thickness of Magnetic Material			1.0		mm	
B2	Measuring Distance			40.96		mm	
Physical Dimensions Non Magnetized Area							
I1	Space between magnetic Tracks			0.5		mm	
Magnetic Dimensions Master Track							
M1	Width of Master Track			4.75		mm	
M2	Pole Width of Master Track			1.28		mm	
Magnetic Dimensions Nonius Track							
N1	Width of Nonius Track			4.75		mm	
N2	Pole Width of Nonius Track			M2* ¹⁶ / ₁₅		mm	
Chip Position							
P1	Distance Package Surface DFN16-5x5	referred to magnetic coating surface		0.4		mm	
P2	Distance Sensor Surface (Bare Die)	referred to magnetic coating surface		0.8		mm	
P3	Rotation of Chip	vs. magnetic master track		0.0		deg	
Magnetic Material Characteristics							
Hc	Coercive Field Strength	at 20 °C		170		kA/m	
Br	Remanence	at 20 °C		240		mT	
TKB	Temperature Coefficient of the Remanence	temperature range -40 °C...100 °C		-0.2		%/K	
Bpp	Magnetic Field Amplitude	at 0.8 mm effective distance (sensor to magnetic surface)	20			mT	

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preliminary



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REVISION HISTORY

Rev	Notes	Pages affected
A1	Initial version	all
A2	Figure tape dimensions with embedded fonds	1

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