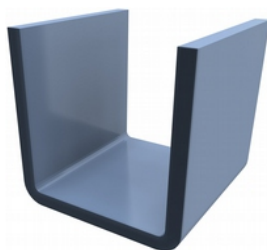


U-Shield

Ni-Fe Soft Ferromagnetic Shield



Description

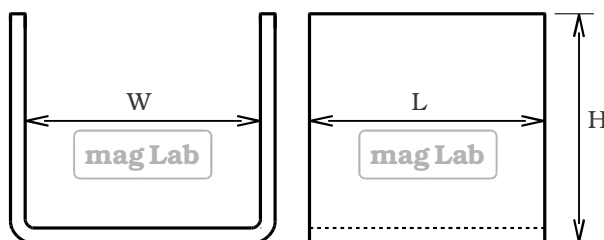
The U-Shield is a soft ferromagnetic shield featuring superior material characteristics such as high linearity and very low hysteresis.

The shield is designed for planar current sensing in combination with a magnetic field sensor, i.e., Hall sensor, AMR sensor and a busbar conductor. The U-Shield protects the sensor from parasitic magnetic fields caused by nearby conductors or other magnetic field sources while at the same time it enhances sensitivity and signal-to-offset ratio of the sensor.

Magnetic Characteristics

Parameter	Typical Value	Unit
Relative Permeability	100'000	a.u.
Initial Relative Permeability	7000	a.u.
Saturation Flux Density	1	T
Hysteresis	2.8	A/m
Curie Temperature	450	degC

Geometry



Material Specification	U-Shield-W-L-H-[T]	-[Ni] ⁻¹ (%)
Standard thickness: 0.8mm / 48% Ni	T=0.8	Ni=48
Other thickness options 0.35/0.5/1/1.2/1.5 mm	T=...	Ni=...

Order Codes: U-Shield – Width – Length – Height – Thickness (– Ni)

U-Shield (order code example)	-[W]-	-[L]-	-[H]-	-[T]
U-Shield-12-13-12.5-0.8 (standard)	W=12	L=13	H=12.5	T=0.8

(all dimensions: mm)

1 Standard version contains 48% Ni; others on request