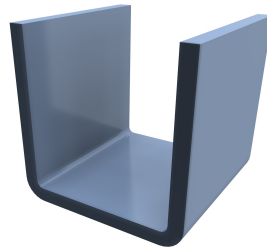


U-Shield U12.5-10-12.5-1.5

Ni-Fe Soft Ferromagnetic Shield



Description

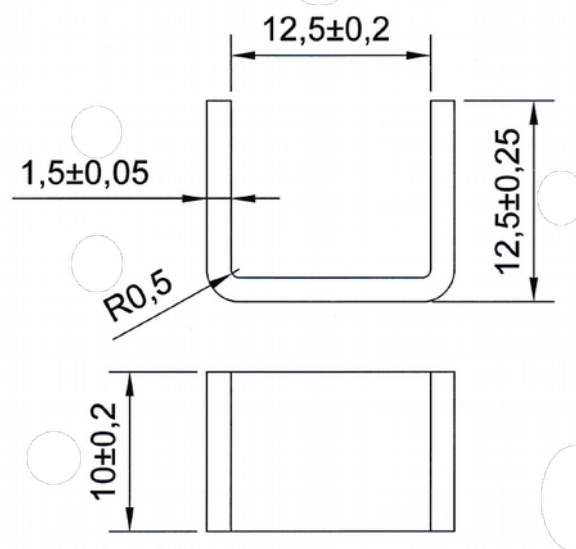
The U-Shield is a soft ferromagnetic shield featuring superior material characteristics such as high linearity and very low hysteresis.

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	Thickness	Ni content
Thickness and Nickel content	1.5mm	48%