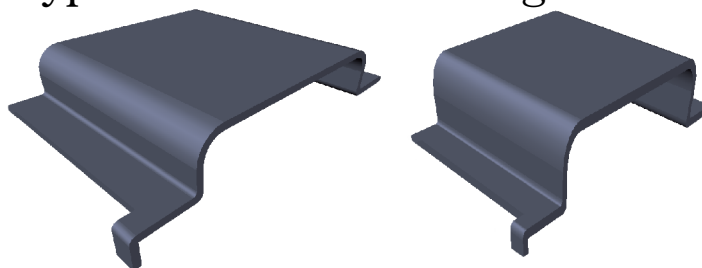


SMD-Shield

SMD-Type Ni-Fe Soft Ferromagnetic Shield



Description

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

The shield is designed for PCB-based planar current sensing in combination with a magnetic field sensor, i.e., Hall sensor, AMR sensor and a current conductor. The SMD-shield protects the sensor from parasitic magnetic fields caused by nearby conductors or other magnetic field sources.

The SMD shield can be assembled on top and bottom side of the PCB. The two diagonally placed leads assure the precise alignment with the underlying magnetic sensor and the components in its vicinity. Typically, the shield is assembled on the PCB with glue. However, a version with solderable pins is available on request.

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

Order Codes

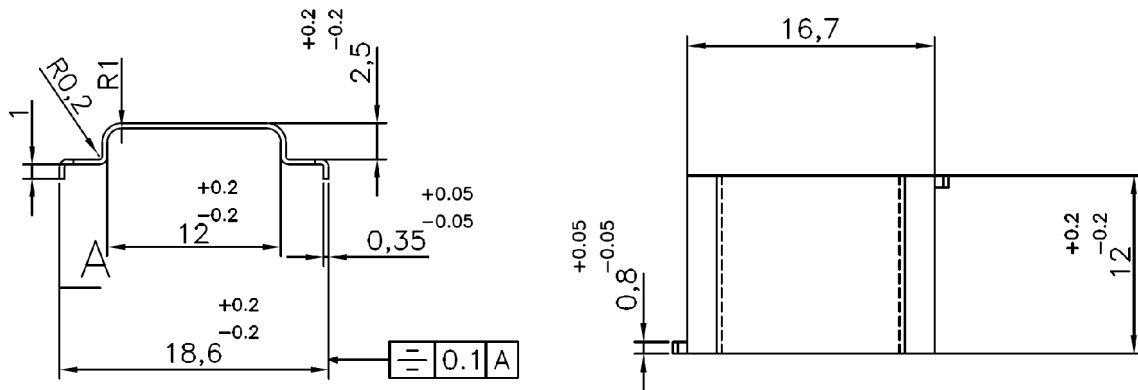
Parameter	SMD-12-	-[L]-	-[H]	-[T]-	-[Ni] ⁻¹ (%)
Standard length-height: 12-2.5mm and 8-5mm		L=12 L=8	H=2.5 H=5		
Standard thickness: 0.35mm / 48% Ni				T=0.35	Ni=48
Other thickness options 0.5 mm (on request)				T=...	Ni=...

(all dimensions: mm)

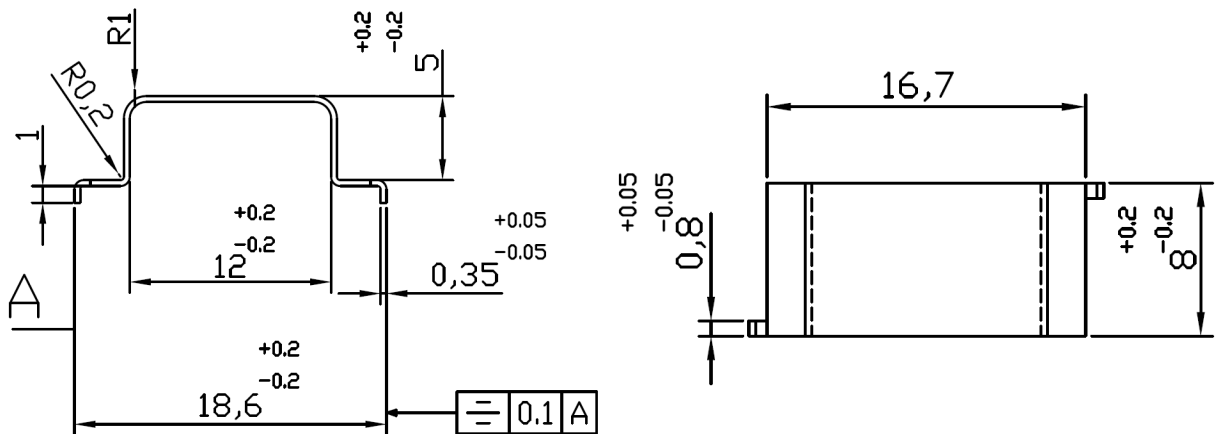
1 Standard version contains 48% Ni; others on request

Geometry

SMD-12-12-2.5-0.35



SMD-12-8-5-0.35



(all dimensions: mm)