

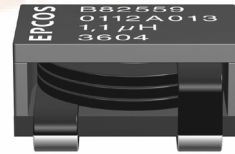


Inductors	B82559*A013
Helically wound power inductors	HPI 13

Rated inductance 0.5 to 3.9 μ H
Rated current 10 to 25 A

Construction

- Ferrite core
- Magnetically shielded
- Winding: enamel copper flat wire
- Self-led construction under body termination



Features

- Very high rated current
- Extremely low DC resistance
- Very low profile and smallest possible footprint
- Suitable for pick and place processes

Applications

- Energy storage chokes for
 - DC/DC converters
 - VRM modules
 - POL converters

Terminals

- Pure tin (Pb-free)

Marking

EPCOS, ordering code, inductance, date of manufacture (coded)

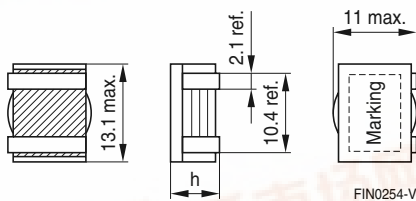
Delivery mode and packing unit

Blister tape 24 mm, reel 330 mm dia.

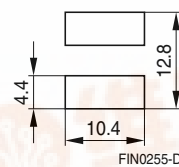
4.95 mm height = 750 pcs./reel

5.95 mm height = 550 pcs./reel

Dimensional drawing



Recommended PCB layout





Inductors

B82559*A013

Helically wound power inductors

HPI 13



General technical data and measuring conditions

Rated inductance L_R	Measured with Wayne-Kerr 3260A/3265B, measuring voltage 100 mV
Inductance tolerance	$\pm 10\%$
Saturation current I_{sat}	Current that will result in approx. 20% drop in inductance value. Temperature response needs to be verified in specific applications. Test results on request.
DC resistance	Measured at 20 °C ambient temperature
Solderability	235 °C, 5 s, wetting >90%
Operating temperature	-40 ... +130 °C
Weight	2.2 g (height = 4.95 mm), 2.6 g (height = 5.95 mm)

Characteristics and ordering codes

L_R	I_{sat}	R_{max}	Height h	Ordering code
μH	A	m Ω	mm	
0.50	30	1.1	4.95	B82559A0501A013
0.95	25	1.4	5.95	B82559A0951A013
1.1	20	2.2	4.95	B82559A0112A013
1.4	22	1.8	5.95	B82559A0142A013
2.2	15	4.2	4.95	B82559A0222A013
2.4	16.5	3.2	5.95	B82559A0242A013
3.0	13	5.1	4.95	B82559A0302A013
3.9	12	6.0	5.95	B82559A0392A013

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This brochure replaces the previous edition.

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