



Inductors

Transponder coils

Series/Type: B82450
Date: August 2006



Size 11.4 x 3.5 x 2.4 mm
Rated inductance 1 ... 7 mH

Construction

- Ferrite core
- Winding: enamel copper wire
- Moulded
- High mechanical resistance
- RoHS-compatible
- Suitable for lead-free reflow soldering profiles, e.g. JEDEC J-STD-020C



Terminals

- Tinned

Delivery mode

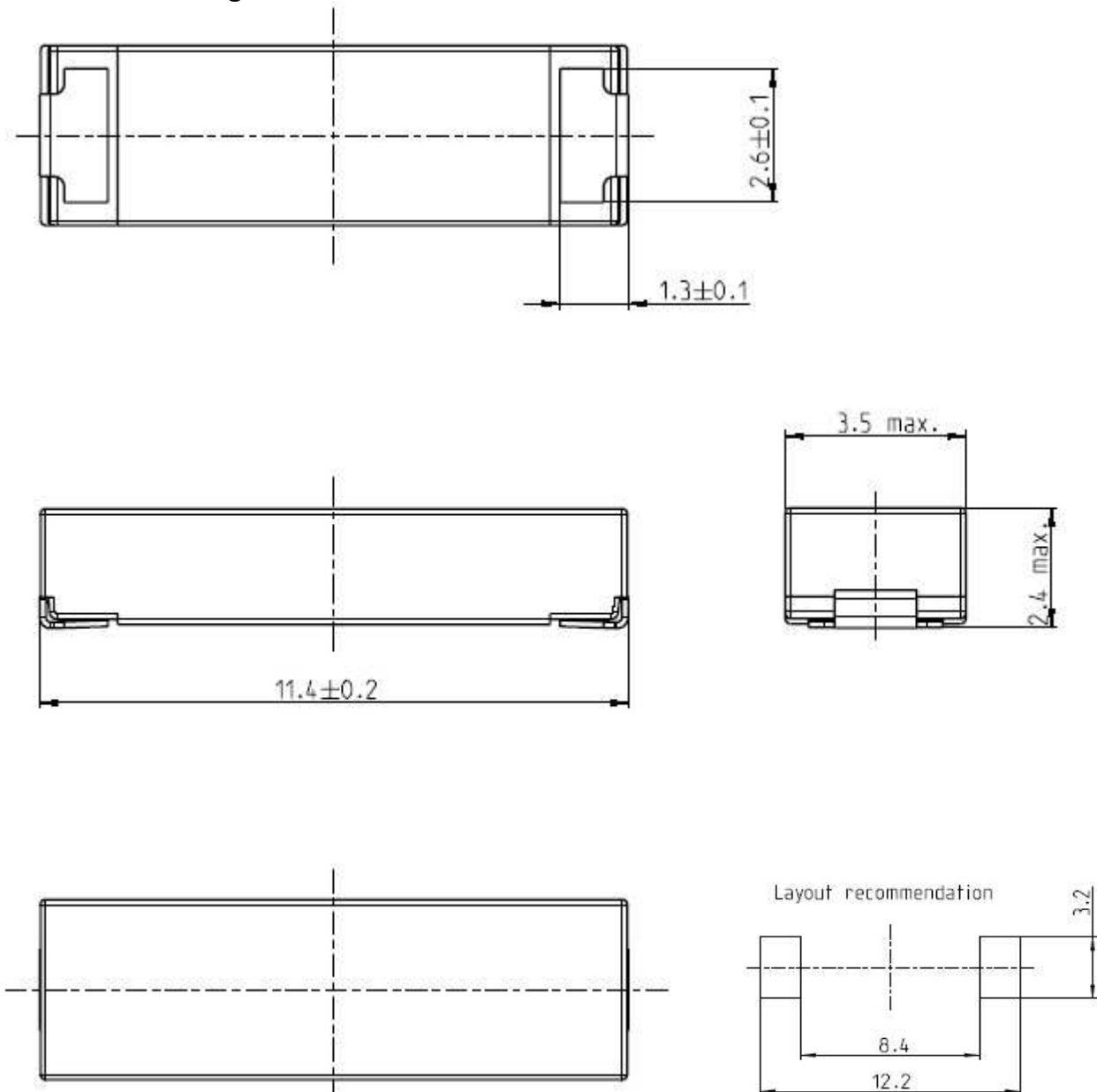
24-mm blister tape, wound on reel

General technical data

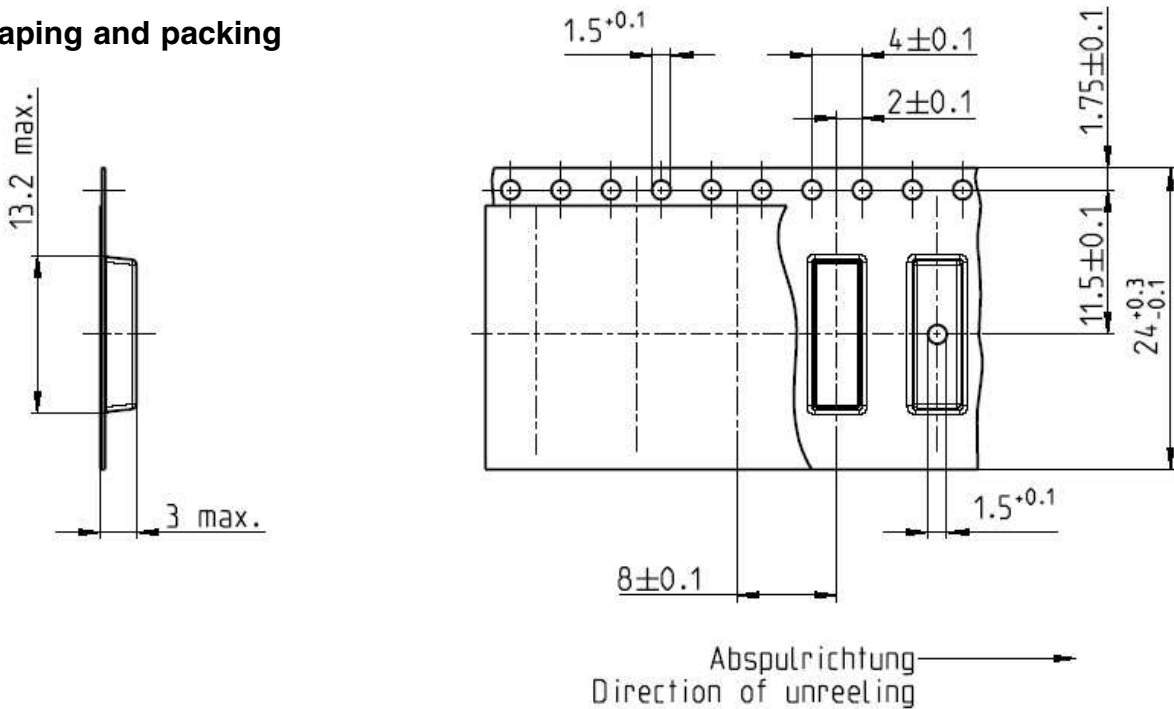
Rated inductance L_R	Measured with HP 4294A, test fixture HP 16034, measuring voltage 0.5 V _{rms} at frequency f_L @ 20°C
f_{res}	Measured with network analyser HP 8753
Q factor	Measured with HP 4294A, test fixture HP 16034, measuring voltage 0.5 V _{rms} at frequency f_Q @ 20°C
Sensitivity S_{typ}	Measured with Helmholtz coil test setup, $f=125kHz$
Climatic category	In accordance with IEC 60068-1: 40/125/56 (-40 °C/ +125 °C/ 56 days damp heat test)
Solderability	3 s, 245 °C, wetting >90%
Soldering	Suitable for lead-free reflow soldering profiles e.g. like shown in JEDEC J-STD-020C
DC resistance R_{max}	Measured at 20 °C ambient temperature
Weight	Approx. 0.32 g

SMD

Dimensional drawing



All dimensions in mm

SMD
Taping and packing

Characteristics and ordering code

L_R	f_L, f_Q	Tolerance	Q_{min}	f_{res}	S_{typ}	R_{max}	Preliminary Ordering code
mH	kHz			kHz	mV/A/m	Ω	
1	125	$\pm 3\%$	33	>2700	20	15	B82450A1004A000
2.36	125	$\pm 3\%$	34	>2000	37	25	B82450A2364A000
7	125	$\pm 3\%$	34	>1100	60	70	B82450A7004A000

Characteristics and ordering code for other L values available on request.

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