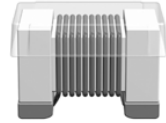




**Size 0805 (EIA) and/or 2012 (IEC)**  
**Rated inductance 2,7 to 820 nH**  
**Rated current 180 to 1000 mA**



#### Construction

- Cubic coil with ceramic core
- Epoxy-moulded flat top for vacuum pickup
- Winding ends welded to terminations

#### Features

- High  $Q$  factor
- High resonance frequency
- Close inductance tolerance
- Suitable for reflow (IR and vapor phase) and wave soldering

#### Applications

- Antenna amplifiers
- DECT systems
- Mobile phones
- Keyless entry
- GPS (Global Positioning System)

#### Terminals

- Thick-film coating of Ag/Pd/Pt
- Base material  $Al_2O_3$  ceramics

#### Marking

No marking on component

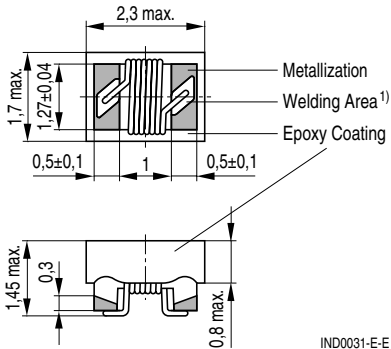
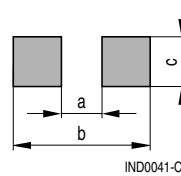
Minimum data on reel:

Manufacturer, part number, ordering code,  
 $L$  value and tolerance of  $L$  value,  
quantity, date of packing

#### Delivery mode

8-mm blister tape, wound on 180-mm reel.

For details on taping, packing and packing units see data book "Chokes and inductors", page 153.

**Dimensional drawing**

**Layout recommendation**

**Dimensions (mm)**

a	b	c
1,1 ± 0,1	3,2 ± 0,4	1,5 ± 0,2

1) This area (30 % of contact area) should not be used to assess solderability

**Technical data and measuring conditions**

Rated inductance $L_R$	Measured with impedance analyzer HP 4291A and test fixture 16197 at frequency $f_L$ ; short dimensions 2,0 x 1,2 x 0,8 (mm); contacting area 2,0 x 1,2 (mm); short inductance 200 pH unconsidered
Q factor $Q_{\min}$	Measured with impedance analyzer HP 4291A and test fixture 16197 at frequency $f_Q$ ; short dimensions 2,0 x 1,2 x 0,8 (mm); contacting area 2,0 x 1,2 (mm)
Rated current $I_R$	Maximum permissible dc with inductance decrease $\Delta L/L_0 \leq \pm 10 \%$ and temperature increase of $\leq 20$ K at rated temperature of 125 °C
Self-resonance frequency $f_{\text{res, min}}$	Measured with network analyzer HP 8720
Climatic category	In accordance with IEC 60068-1 55/125/56 (– 55 °C/+ 125 °C/56 days damp heat test)
Solderability	In accordance with IEC 60068-12-58 (215 ± 3) °C, (3 ± 0,3) s Wetting of soldering area: $\geq 95 \%$
Resistance to soldering heat	In accordance with IEC 60068-2-20 260 °C, 10 s; $\Delta L/L \leq \pm 3 \%$
Permissible PCB bending	2 mm (100 mm long standard PCB)
Weight	Approx. 8,5 mg

**Characteristics and ordering codes**

$L_R$	Tolerance	$f_L$	$Q_{min}$	$f_Q$	$I_R$	$R_{max}$	$f_{res, min}$	Ordering code <sup>1)</sup>
nH		MHz		MHz	mA	$\Omega$	MHz	
Core material: ceramics								
2,7	$\pm 10\%$ $\triangle K$	250	50	1500	1000	0,03	9000	B82498F3279K000
5,6		250	50	1000	900	0,04	7000	B82498F3569K000
6,8		250	50	1000	800	0,05	6000	B82498F3689K000
8,2		250	50	1000	700	0,09	5000	B82498F3829K000
10	$\pm 2\%$ $\triangle G$	250	50	500	700	0,09	5000	B82498F3100+000
12		250	50	500	700	0,09	4000	B82498F3120+000
15	$\pm 5\%$ $\triangle J$	250	50	500	650	0,13	3300	B82498F3150+000
18		250	60	500	700	0,08	3300	B82498F3180+000
22		250	60	500	700	0,08	2500	B82498F3220+000
27		250	60	500	700	0,09	2500	B82498F3270+000
33		250	65	500	600	0,11	2200	B82498F3330+000
39		250	65	500	600	0,12	2100	B82498F3390+000
47		200	65	500	600	0,13	2000	B82498F3470+000
56		200	60	500	600	0,14	1700	B82498F3560+000
68		200	60	500	500	0,18	1600	B82498F3680+000
82		150	60	500	500	0,19	1500	B82498F3820+000
100		150	55	500	450	0,28	1350	B82498F3101+000
120		150	50	250	440	0,31	1250	B82498F3121+000
150		100	45	250	400	0,42	1150	B82498F3151+000
180		100	45	250	340	0,53	1050	B82498F3181+000
220		100	55	250	320	0,70	950	B82498F3221+000
270		100	45	250	270	1,0	900	B82498F3271+000
330		100	45	250	220	1,5	800	B82498F3331+000
390		100	40	250	210	1,6	700	B82498F3391+000
470		50	30	100	190	1,9	650	B82498F3471+000
560		25	23	50	230	1,3	400	B82498F3561+000
680		25	23	50	190	1,7	300	B82498F3681+000
820		25	23	50	180	1,9	300	B82498F3821+000

1) Replace the + by the code letter for the required inductance tolerance.

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