



**Rated impedance 27 to 91  $\Omega$**   
**Rated current 3 and 4 A**



### Construction

- Size 0603 to 1806 (EIA)  
or 1608 to 4516 (IEC)
- Ferrite core

### Features

- Low dc resistance
- High rated current
- Available in various sizes
- Suitable for reflow (IR and vapor phase)  
and wave soldering

### Applications

Prevention of high-frequency EMI in

- computers, printers
- VCRs, TVs

### Terminals

- Tinned
- Ni intermediate layer

### Marking

No marking on component

Minimum marking on reel:

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

### Delivery mode

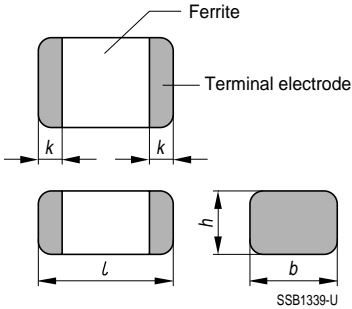
8- or 12-mm blister tape, reel packing

For details on taping, packing and packing units [see page 217](#)

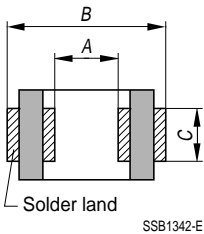


### General technical data

Impedance $ Z $	Measured with HP 4291A at frequency $f_Z$
Rated current $I_R$	Maximum dc current at ambient temperature $T_A = 85^\circ\text{C}$
DC resistance $R_{\max}$	Measured at $20^\circ\text{C}$ ambient temperature
Climatic category	In accordance with IEC 60068-1 25/085/21 ( $-25^\circ\text{C}/+85^\circ\text{C}/21$ days damp heat test)
Storage temperature	$-25^\circ\text{C}/+85^\circ\text{C}$
Soldering:	
Wave soldering	Maximum $250^\circ\text{C}$ , 5 s
Infrared soldering	Maximum $240^\circ\text{C}$ , 20 s temperature/time profile $> 200^\circ\text{C}$ , max. 50 s
Vapor-phase soldering	Maximum $(215 \pm 5)^\circ\text{C}$ , max. 50 s
Solderability	$(230 \pm 5)^\circ\text{C}$ , $(3 \pm 0,5)$ s wetting of soldering area: $\geq 90\%$
Resistance to soldering heat	$(260 \pm 5)^\circ\text{C}$ , $(10 \pm 0,5)$ s after preheating at $150^\circ\text{C}$ , 60 s impedance change max. $\pm 25\%$
Permissible PCB bending	2 mm (100 mm long standard PCB)
Temperature cycles	$-25^\circ\text{C}/+85^\circ\text{C}$ , for each 30 min., total 5 cycles impedance change $\leq 25\%$
Humidity test	$60^\circ\text{C}$ , 90 to 95 % r. h., 500 h impedance change $\leq 25\%$
Life test	500 h at $85^\circ\text{C}$ and rated current impedance change $\leq 25\%$

**Dimensional drawing**


Type	Size		Dimensions (mm)			
	EIA	IEC	<i>l</i>	<i>b</i>	<i>h</i>	<i>k</i>
B82482-A2	0603	1608	1,6 ± 0,2	0,8 ± 0,12	0,8 ± 0,2	(0,4)
B82483-A2	0805	2012	2,0 ± 0,2	1,25 ± 0,2	0,9 ± 0,2	(0,5)
B82485-A2	1206	3216	3,2 ± 0,3	1,6 ± 0,2	0,9 ± 0,2	(0,6)
B82487-A2	1806	4516	4,5 ± 0,3	1,6 ± 0,2	0,9 ± 0,2	(0,6)

**PCB layout recommendation**


Type	Size		Dimensions (mm)		
	EIA	IEC	<i>A</i>	<i>B</i>	<i>C</i>
B82482-A2	0603	1608	0,6 ... 1,0	2,0 ... 3,0	0,8 ... 1,0
B82483-A2	0805	2012	0,8 ... 1,2	3,0 ... 4,0	1,0 ... 1,2
B82485-A2	1206	3216	1,6 ... 2,0	4,0 ... 5,0	1,2 ... 1,6
B82487-A2	1806	4516	2,6 ... 3,0	5,5 ... 6,5	1,2 ... 1,6

**Characteristics and ordering codes**

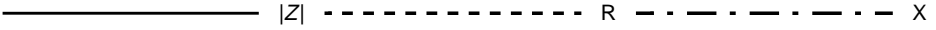
 For further technical data [see page 214](#)

Size EIA	IEC	$ Z $ Ω	Tolerance	$f_z$ MHz	$I_R$ A	$R_{max}$ mΩ	Ordering code
0603	1608	27	± 25 %	100	4	6	B82482-A2270-A
0805	2012	39	± 25 %	100	4	8	B82483-A2390-A
1206	3216	68	± 25 %	100	3	12	B82485-A2680-A
1806	4516	91	± 25 %	100	3	16	B82487-A2910-A



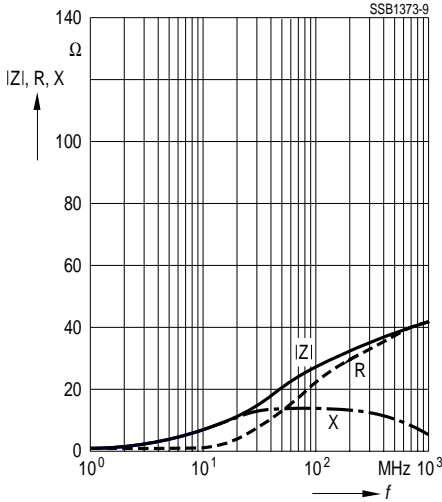
**Typical electrical characteristics**

Impedance  $|Z|$ , real part R and imaginary part X versus frequency  $f$



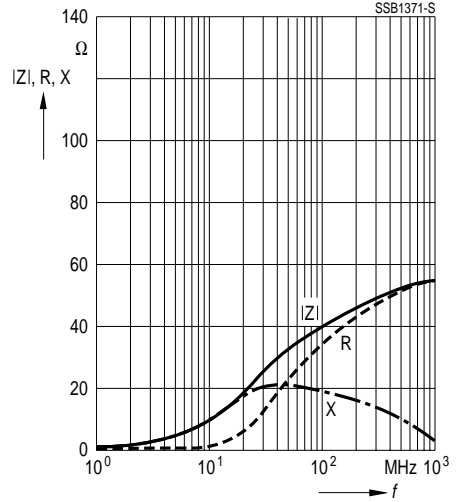
**Size 0603**

B82482-A2270-A



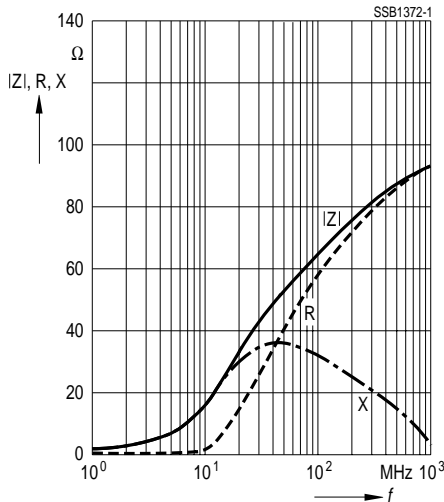
**Size 0805**

B82483-A2390-A



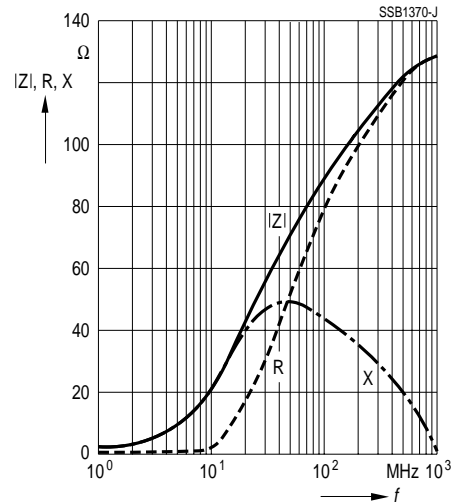
**Size 1206**

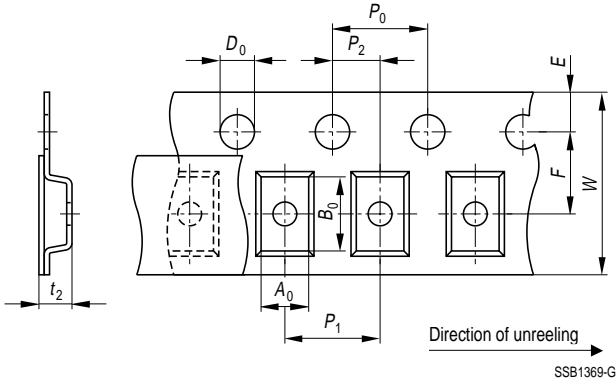
B82485-A2680-A



**Size 1806**

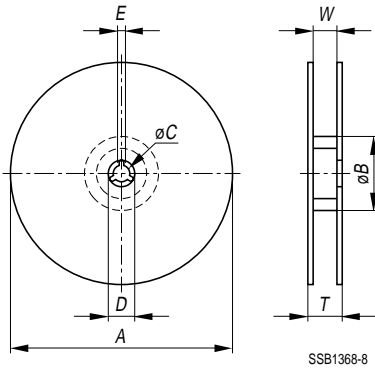
B82487-A2910-A




**8- and 12-mm blister tape**


SSB1369-G

Size (EIA)	0603	0805	1206	1806
Size (IEC)	1608	2012	3216	4516
Type	B82482-A2	B82483-A2	B82485-A2	B82487-A2
Dimensions (mm)				
$W$	$8,0 \pm 0,2$	$8,0 \pm 0,2$	$8,0 \pm 0,2$	$12,0 \pm 0,2$
$A_0$	$2,1 \pm 0,2$	$2,3 \pm 0,2$	$3,5 \pm 0,2$	$4,8 \pm 0,2$
$B_0$	$1,1 \pm 0,2$	$1,5 \pm 0,2$	$1,9 \pm 0,2$	$1,9 \pm 0,2$
$F$	$3,5 \pm 0,1$	$3,5 \pm 0,1$	$3,5 \pm 0,1$	$5,5 \pm 0,1$
$E$	$1,75 \pm 0,1$	$1,75 \pm 0,1$	$1,75 \pm 0,1$	$1,75 \pm 0,1$
$P_0$	$4,0 \pm 0,1$	$4,0 \pm 0,1$	$4,0 \pm 0,1$	$4,0 \pm 0,1$
$P_1$	$4,0 \pm 0,1$	$4,0 \pm 0,1$	$4,0 \pm 0,1$	$8,0 \pm 0,1$
$P_2$	$2,0 \pm 0,1$	$2,0 \pm 0,1$	$2,0 \pm 0,1$	$2,0 \pm 0,1$
$D_0$	$1,5 + 0,1/- 0$	$1,5 + 0,1/- 0$	$1,5 + 0,1/- 0$	$1,5 + 0,1/- 0$
$t_2$	1,4 max.	1,4 max.	1,4 max.	1,4 max.


**Reel packing**


Size (EIA)	0603	0805	1206	1806
Size (IEC)	1608	2012	3216	4516
Type	B82482-A2	B82483-A2	B82485-A2	B82487-A2
Dimensions (mm)				
<i>A</i>	178,0 ± 2			
Ø <i>B</i>	60,0 ± 1			
Ø <i>C</i>	13,0 ± 0,5			
<i>D</i>	21,0 ± 0,8			
<i>E</i>	2,0 ± 0,5			
<i>W</i>	9,0 ± 0,3	9,0 ± 0,3	9,0 ± 0,3	13,0 ± 0,3
<i>T</i>	11,4 ± 1	11,4 ± 1	11,4 ± 1	15,4 ± 1

**Packing units per reel (pieces)**

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