

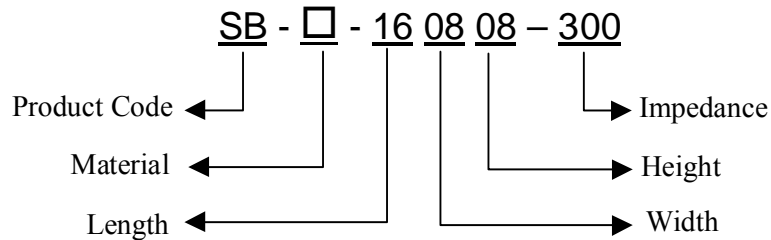


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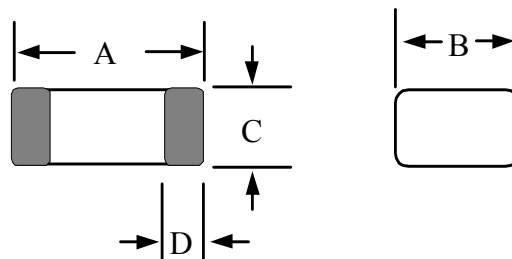
SMD Chip Beads, SB Series

SB - 160808 Series

Ordering Code:



Dimensions in mm:



Type	A	B	C	D
SB - □ -160808	1.6 ± 0.2	0.8 ± 0.15	0.8 ± 0.15	0.4 ± 0.2

Electrical:

Part Number	Impedance (ohm)	Test Frequency (MHz)	DC Resistance (ohms) Max	Rated Current (mA) Max
SB-K-160808 - 300	30 ± 25%	100	0.20 Ω	200
SB-K-160808 - 600	60 ± 25%	100	0.20 Ω	200
SB-K-160808 - 800	80 ± 25%	100	0.30Ω	200
SB-K-160808 - 121	120 ± 25%	100	0.30Ω	200
SB-K-160808 - 221	220 ± 25%	100	0.50Ω	100
SB-K-160808 - 301	300 ± 25%	100	0.60Ω	100
SB-K-160808 - 451	450 ± 25%	100	0.70Ω	100
SB-K-160808 - 601	600 ± 25%	100	0.80Ω	100
SB-K-160808 - 751	750 ± 25%	100	1.00Ω	100

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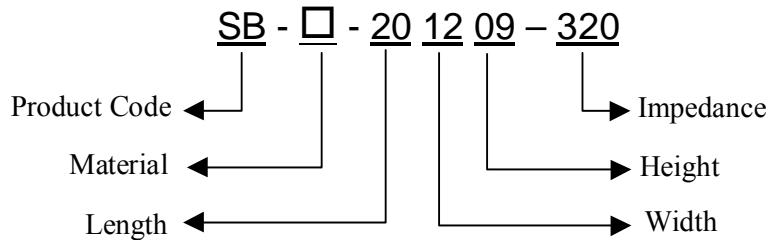


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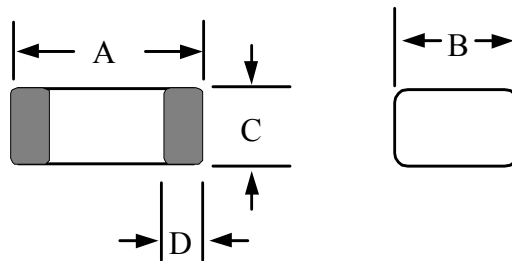
SMD Chip Beads, SB Series

SB - 201209 Series

Ordering Code:



Dimensions in mm:



Type	A	B	C	D
SB - □ - 201209	2.0 ± 0.2	1.25 ± 0.2	0.9 ± 0.2	0.5 ± 0.3

Electrical:

Part Number	Impedance (ohm)	Test Frequency (MHz)	DC Resistance (ohms) Max	Rated Current (mA) Max
SB-K-201209 – 110	11 ± 25%	100	0.10 Ω	600
SB-K-201209 – 170	17 ± 25%	100	0.10 Ω	500
SB-K-201209 – 320	32 ± 25%	100	0.30 Ω	500
SB-K-201209 – 800	80 ± 25%	100	0.40 Ω	400
SB-K-201209 – 121	120 ± 25%	100	0.40 Ω	300
SB-K-201209 – 151	150 ± 25%	100	0.50 Ω	300
SB-K-201209 – 221	220 ± 25%	100	0.60 Ω	200
SB-K-201209 – 301	300 ± 25%	100	0.90 Ω	200
SB-K-201209 – 401	400 ± 25%	100	0.90 Ω	200
SB-K-201209 – 601	600 ± 25%	100	1.00 Ω	100
SB-K-201209 – 102	1200 ± 25%	100	1.20 Ω	50

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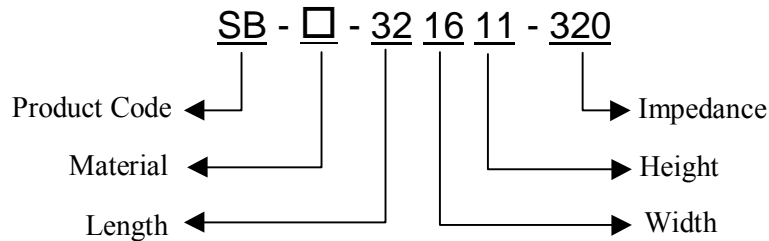


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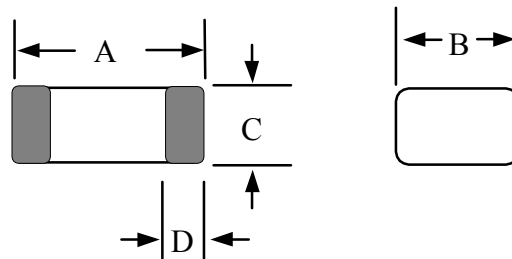
SMD Chip Beads, SB Series

SB - 321611 Series

Ordering Code:



Dimensions in mm:



Type	A	B	C	D
SB - □ - 321611	3.2 ± 0.2	1.6 ± 0.2	0.6 ± 0.2	0.5 ± 0.3

Electrical:

Part Number	Impedance (ohm)	Test Frequency (MHz)	DC Resistance (ohms) Max	Rated Current (mA) Max
SB-K-321611 – 190	19 ± 25%	100	0.15 Ω	500
SB-K-321611 – 260	26 ± 25%	100	0.15 Ω	500
SB-K-321611 – 320	32 ± 25%	100	0.15 Ω	500
SB-K-321611 – 500	50 ± 25%	100	0.20 Ω	400
SB-K-321611 – 700	70 ± 25%	100	0.30 Ω	400
SB-K-321611 – 900	90 ± 25%	100	0.30 Ω	400
SB-K-321611 – 121	120 ± 25%	100	0.40 Ω	400
SB-K-321611 – 151	150 ± 25%	100	0.50 Ω	200
SB-K-321611 – 201	200 ± 25%	100	0.50 Ω	200
SB-K-321611 – 401	400 ± 25%	100	0.50 Ω	200
SB-K-321611 – 501	500 ± 25%	100	0.50 Ω	200
SB-K-321611 – 601	600 ± 25%	100	0.50 Ω	200
SB-K-321611 – 122	1200 ± 25%	50	1.00 Ω	100
SB-K-321611 – 202	2000 ± 25%	30	1.50 Ω	100

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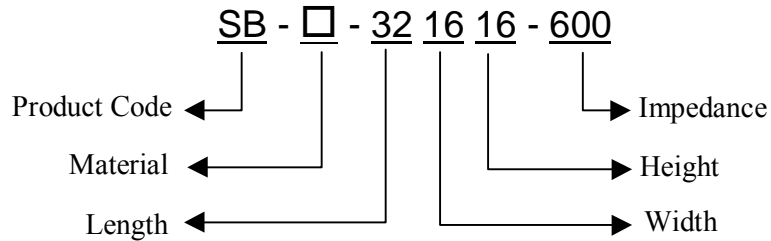


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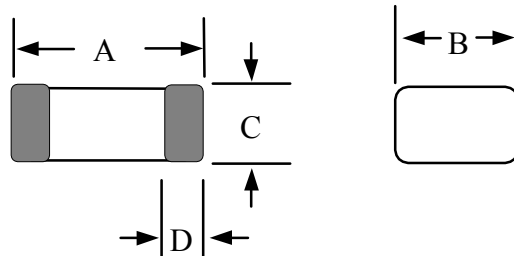
SMD Chip Beads, SB Series

SB - 321616 Series

Ordering Code:



Dimensions in mm:



Type	A	B	C	D
SB - □ - 321616	3.2 ± 0.2	1.6 ± 0.2	1.6 ± 0.2	0.5 ± 0.3

Electrical:

Part Number	Impedance (ohm)	Test Frequency (MHz)	DC Resistance (ohms) Max	Rated Current (mA) Max
SB-K-321616 – 600	$60 \pm 25\%$	100	0.50Ω	200
SB-K-321616 – 700	$70 \pm 25\%$	100	0.50Ω	200

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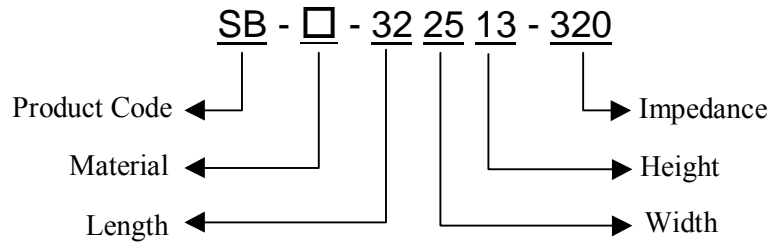


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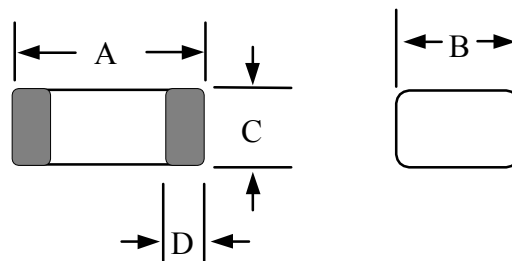
SMD Chip Beads, SB Series

SB - 322513 Series

Ordering Code:



Dimensions in mm:



Type	A	B	C	D
SB - □ - 322513	3.2 ± 0.2	2.5 ± 0.2	1.3 ± 0.2	0.5 ± 0.3

Electrical:

Part Number	Impedance (ohm)	Test Frequency (MHz)	DC Resistance (ohms) Max	Rated Current (mA) Max
SB-K-322513 – 320	$32 \pm 25\%$	100	0.30 Ω	400
SB-K-322513 – 600	$60 \pm 25\%$	100	0.30 Ω	400
SB-K-322513 – 900	$70 \pm 25\%$	100	0.30 Ω	400
SB-K-322513 – 202	$2000 \pm 25\%$	30	1.50 Ω	400

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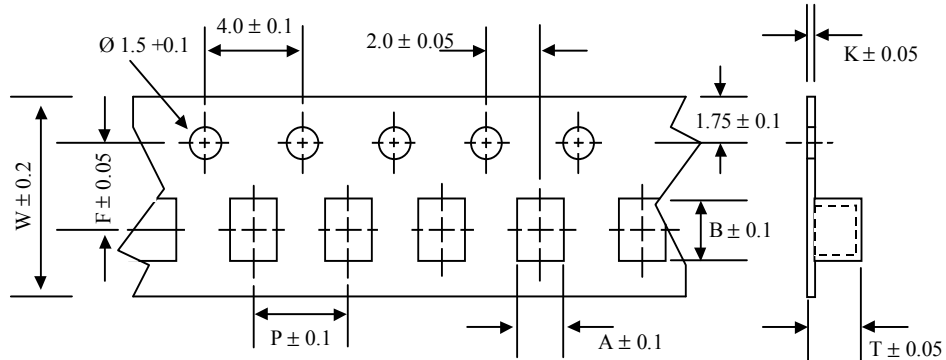
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SMD Chip Beads, SB Series

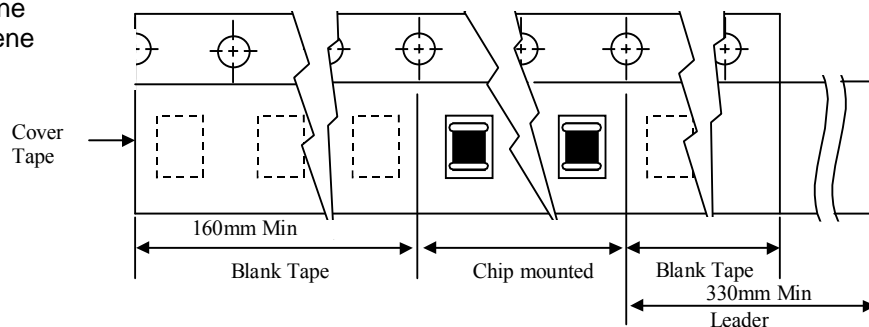
Tape Dimensions:



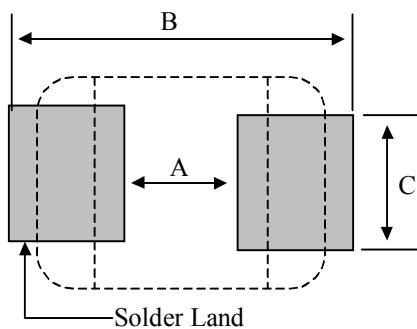
Type	A	B	T	W	P	F	K
SB-160808	1.14	1.75	1.15	8.0	4.0	3.5	0.2
SB-201209	1.54	2.32	1.15	8.0	4.0	3.5	0.2
SB-321611	1.94	2.54	1.29	8.0	4.0	3.5	0.2
SB-321616	1.94	3.64	1.90	8.0	4.0	3.5	0.2
SB-322513	2.80	3.42	1.64	8.0	4.0	3.5	0.2

Tape Material:

Carrier Tape: Polystyrene
Cover Type : Polyethylene



Recommended Pattern:



Type	A	B	C
SB-160808	0.8	2.4 ~ 3.4	0.6
SB-201209	1.2	3.0 ~ 4.0	1.0
SB-321611	2.0	4.2 ~ 5.2	1.2
SB-321616	2.0	4.2 ~ 5.2	1.2
SB-322513	2.0	5.5 ~ 6.5	1.8

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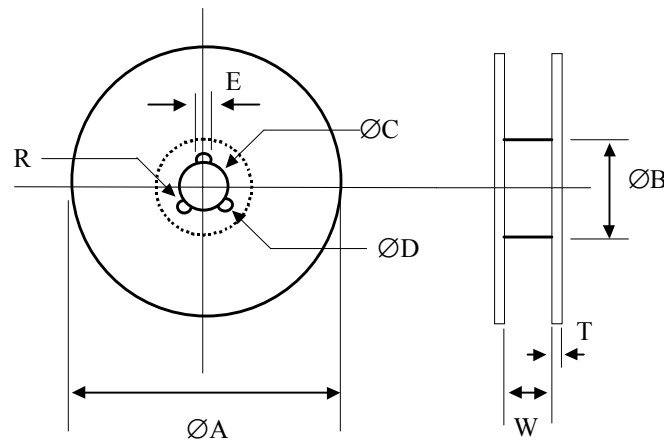
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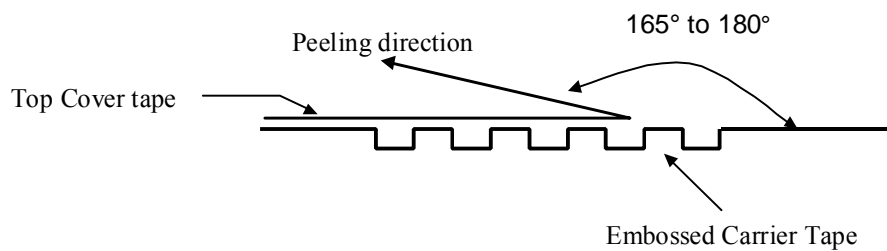
SMD Chip Beads, SB Series

Reel Dimensions:



$\varnothing A$	$\varnothing B$	$\varnothing C$	$\varnothing D$	E	W	T	R
178 ± 2	60 ± 1	13.0 ± 0.5	21.0 ± 0.8	2.0 ± 0.5	10.0 ± 1.0	2.0 ± 0.5	1.0

Tape peeling:



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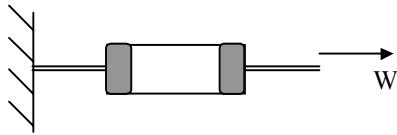
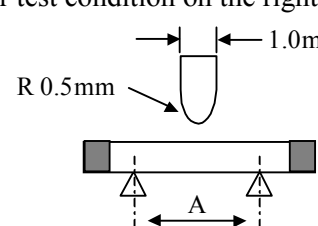


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SMD Chip Beads, SB Series

General Component Specification for Chips Beads

Reliability Test (Mechanical Performance Test)

No.	Item	Specification	Test Condition		
1.	Solderability	More than 90% of the terminal electrode shall be covered with fresh solder	Pre heat: 100°C to 150°C Pre heat Time: 1 minute Solder: H63A (Eutectic Solder) Solder Temperature: 230 ± 5°C Flux: Rosin Dip Time: 3 ± 1 seconds		
2.	Soldering Heat Resistance	The chips shall not crack. More than 75% of the Terminal Electrode shall be covered with solder	Pre heat: 100°C to 150°C Pre heat Time: 1 minute Solder: H63A (Eutectic Solder) Solder Temperature: 260 ± 5°C Flux: Rosin Dip Time: 10 ± 1 seconds		
3.	Terminal Strength	The terminal electrode shall not break off nor the ferrite damage 	Type	Kgf (min)	Time
			1608	0.6 kg	30 sec ± 5 Sec
			2012	0.6 kg	
			3216	1.0 kg	
			3225	1.5 kg	
4.	Bending strength	The ferrite shall not be damaged by force applied per test condition on the right 	Type	A (mm)	Kgf
			1608	1.0	0.6
			2012	1.4	1.0
			321611	2.0	2.0
			321616	2.0	2.5
			322513	2.0	2.5

Reliability Test (Climatic Test)

No	Item	Specification	Test Condition
5.	Thermal Shock (Temperature cycle)	Impedance value shall be within ±20% of the initial value. DCR shall be within ±20% of initial value	Temperature: -55°C +125°C for 30 minutes, 50 Cycles
6.	Humidity Resistance		Temperature: +60°C ± 2°C Humidity: 90% to 95% Time 1000 ± 12 Hours
7.	High Temperature Resistance		Temperature: +80°C ± 2°C Humidity: 20% Time 1000 ± 12 Hours

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