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Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Ferrite Inductors Conformally Coated SBCP Coils



Overview

Ferrite power inductors are useful in various fields and suitable for DC/DC converters and noise filters.

Applications

Typical applications include LED lighting, xDSL modems, copying machines, flat TVs, smart meters and power supplies.

Benefits

- Drum core construction
- Nickel-Zinc (NiZn) ferrite core
- · Magnetic non-shield type
- Operating temperature range of up to +105°C
- · Available in tape and reel
- RoHS Compliant



Ordering Information

SBCP-	47HY	150	Н	В
Series	Core Size	Inductance Code (µH)	External Tube	Packaging Type
SBCP	Outer size x height $47HY = \phi 4.5 \times 7.0$ $87HY = \phi 8.0 \times 7.5$ $80HY = \phi 8.0 \times 10.0$ $11HY = \phi 11.0 \times 11.0$ $14HY = \phi 11.0 \times 14.0$	First two digits represent significant figures. Third digit specifies number of zeros.	Blank = None H = Presence (only for core sizes 87HY, 80HY and 11HY)	B = Bulk Blank = Tape and reel

*Lead: hard copper wire (ø0.5)

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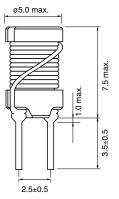
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Dimensions – Millimeters

SBCP-47HY Series



Dimensions of Indented Square Hole Plastic Tape

Р	P ₀	P ₁	F	W	W _o	W ₁	W ₂	H	H ₁	D ₀	d	Δh
±1	±0.3	±0.7	±0.5	+1, -0.5	Minimum	+0.75, -0.5	Maximum	+0.2, -0	Maximum	±0.2		±2
12.7	12.7	5.1	2.5	18	12.5	9	3	18	29.5	ø 4	ø 0.5	0

Δh

SBCP-87HY Series

Dimensions of Indented Square Hole Plastic Tape

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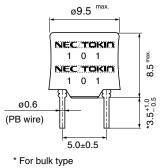
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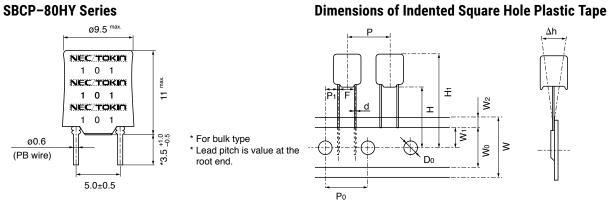
* Lead pitch is value at the root end.

Р	P ₀	P ₁	F	W	Wo	W ₁	W ₂	Н	H ₁	D ₀	d	Δh
±1.0	±0.3	±0.7	±1	+1, -0.5	Minimum	+0.75, -0.5	Maximum	+0.2, -0	Maximum	±0.2		±2
12.7	12.7	3.85	5	18	12.5	9	3	18	28.5	ø 4	ø 0.6	0

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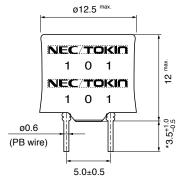


Dimensions - Millimeters cont'd

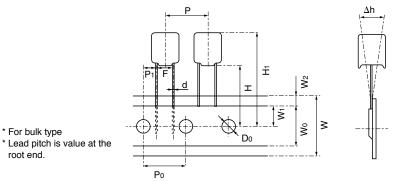


Р	P ₀	P ₁	F	W	W _o	W ₁	W ₂	Н	H ₁	D ₀	d	Δh
±1	±0.3	±0.7	±1	+1, -0.5	Minimum	+0.75, -0.5	Maximum	+2, -0	Maximum	±0.2		±2
12.7	12.7	3.85	5	18	12.5	9	3	18	31	ø 4	ø 0.6	0

SBCP-11HY Series



Dimensions of Indented Square Hole Plastic Tape



Р	P ₀	P ₁	F	W	W _o	W ₁	W ₂	Н	H ₁	D ₀	d	Δh
±1	±0.3	±0.7	±1	+1, -0.5	Minimum	+0.75, -0.5	Maximum	+2, -0	Maximum	±0.2		±2
12.7	12.7	3.85	5	18	12.5	9	3	18	32	ø 4	ø 0.6	0

* For bulk type

root end.



Dimensions – Millimeters cont'd

SBCP-14HY Series

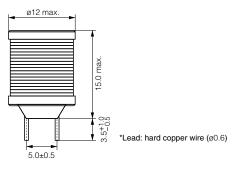


Table 1A – Ratings & Part Number Reference

	Inductance L	DC Resistance	Rated Current	Current (Reference Value) (A)				
Part Number	(µH) at 10 kHz, 1 mA	(Ω) Maximum	(A)	ΔT = 20°C	ΔT = 40°C	L −10% (85°C)		
SBCP-47HY2R2B	2.2±20%	29 m	2.60	2.59	3.66	3.20		
SBCP-47HY3R3B	3.3±20%	37 m	2.30	2.28	3.21	2.70		
SBCP-47HY6R8B	6.8±20%	52 m	1.90	1.92	2.71	1.93		
SBCP-47HY100B	10±20%	67 m	1.60	1.69	2.38	1.60		
SBCP-47HY331B	330±10%	1.80	0.27	0.29	0.39	0.27		
SBCP-47HY102B	1,000±10%	6.00	0.15	0.15	0.21	0.16		



Table 1B – Ratings & Part Number Reference

	Inductor of L (uU)	DC Desistence (0)	Deted Current (A)	Current (Refer	ence Value) (A)
Part Number	Inductance L (μΗ) at 10 kHz, 1 mA	DC Resistance (Ω) Maximum	Rated Current (A) ΔT = 20°C	ΔT = 40°C	L Change Rate -10%
SBCP-87HY4R7H	4.7±20%	0.03	3.20	4.40	4.30
SBCP-87HY6R8H	6.8±20%	0.04	2.80	3.90	3.40
SBCP-87HY101H	100±10%	0.30	0.90	1.20	0.87
SBCP-87HY681H	680±10%	1.66	0.33	0.46	0.32
SBCP-80HY100H	10±20%	0.05	2.90	4.00	5.30
SBCP-80HY470H	47±10%	0.13	1.90	2.60	2.20
SBCP-80HY680H	68±10%	0.16	1.70	2.30	1.80
SBCP-80HY820H	82±10%	0.24	1.30	1.80	1.70
SBCP-80HY101H	100±10%	0.35	1.10	1.50	1.60
SBCP-80HY331H	330±10%	0.75	0.70	0.98	0.85
SBCP-80HY102H	1,000±10%	1.89	0.40	0.56	0.48
SBCP-11HY470H	47±20%	0.10	2.00	2.90	4.40
SBCP-11HY101H	100±10%	0.19	1.30	1.90	3.00
SBCP-11HY681H	680±10%	1.00	0.55	0.77	1.10
SBCP-14HY221B	220±10%	0.31	1.05	1.51	2.20
SBCP-14HY331B	330±10%	0.38	0.95	1.35	1.84
SBCP-14HY102B	1,000±10%	1.16	0.59	0.82	1.01
SBCP-14HY222B	2,200±10%	2.36	0.38	0.54	0.69
SBCP-14HY332B	3,300±10%	2.42	0.33	0.46	0.57
Part Number	Inductance L (µH)	DC Resistance (Ω)	Rated Current (A)	Current (Refere	ence Value) (A)
	at 10 kHz, 1 mA	Maximum	ΔT = 20°C	ΔT = 40°C	L Change Rate -10%

Packaging

Series	Packaging Type	Pieces per Box		
SBCP-47HY	Bulk	6,000		
3DUP-4/11	Tape & Reel	4,000 ¹		
SBCP-87HY	Bulk	4,000		
300P-0/H1	Tape & Reel	2,000 ²		
SBCP-80HY	Bulk	4,000		
SDCP-00HY	Tape & Reel	2,000 ²		
	Bulk	2,000		
SBCP-11HY	Tape & Reel	1,600 ³		
SBCP-14HY	Bulk	1,500		

¹ The box contains 4 reels of 1,000 pieces each

² The box contains 4 reels of 500 pieces each

³ The box contains 4 reels of 400 pieces each



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