

TYPE DB320C

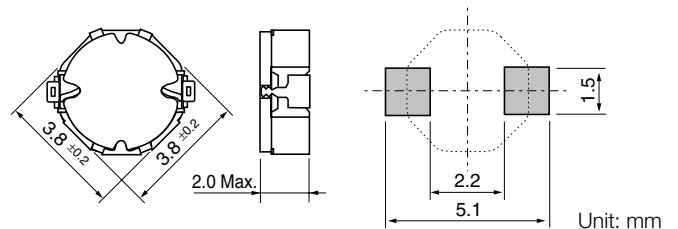
Inductance Range: 3.9 - 27 μ H
Frequency Range: 0.1 - 1MHz

Description

The TOKO DB320C Series is a low profile surface mount fixed inductor with a maximum height of 2.0mm. The product is magnetically shielded and designed for space constrained DC-DC converter applications in portable platforms including wireless handsets, PDA's, and consumer electronics.



Dimensions & Recommended Patterns:



Features

- 3.8mm x 3.8mm footprint (± 0.2 mm)
- 2.0mm maximum height
- Magnetically shielded
- Reflow solderable
- Packaged on 2000 piece reels
- Lead-free terminations

STANDARD PARTS SELECTION GUIDE

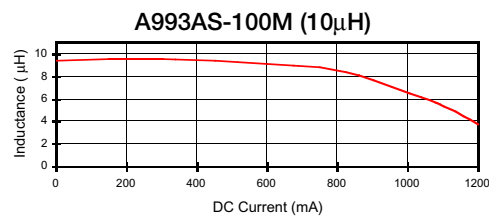
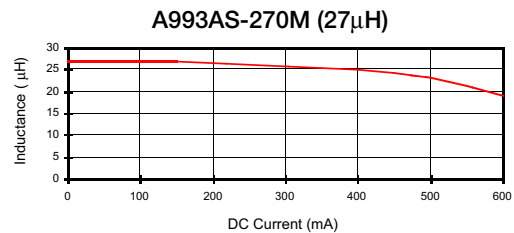
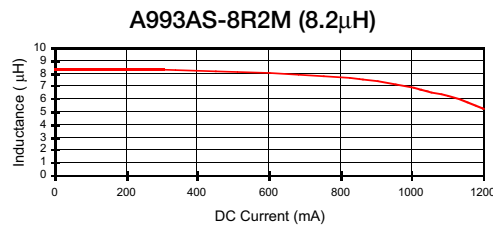
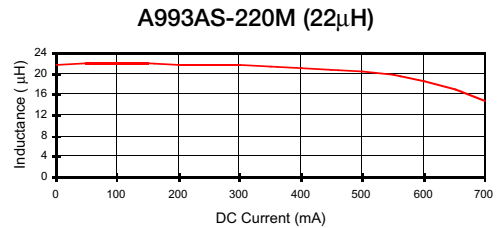
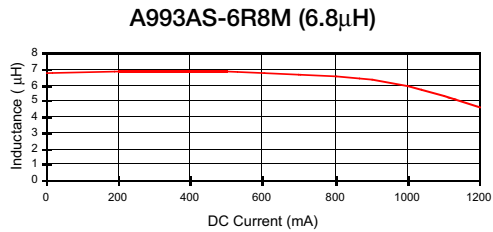
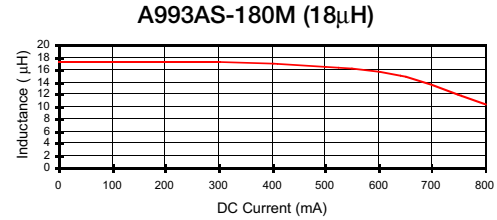
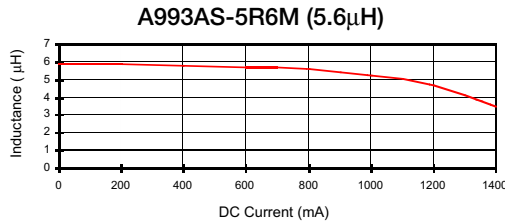
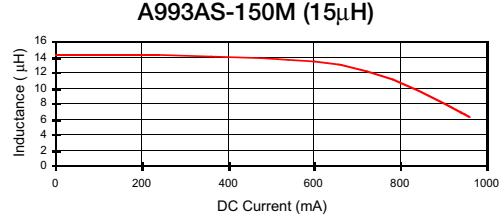
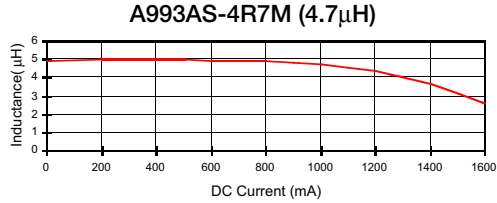
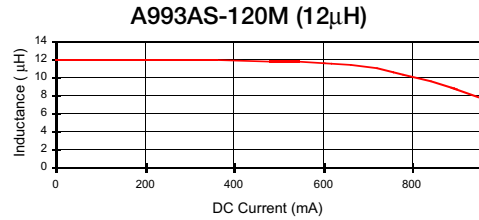
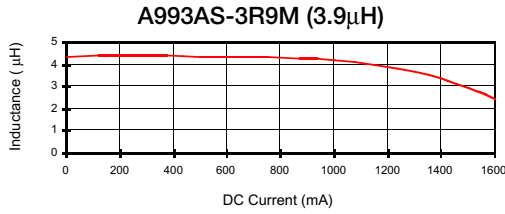
- (1) Inductance is measured by LCR-meter 4284A (Agilent) or equivalent.
 (2) DC resistance is measured by Digital Multimeter TR6871 (Advantest) or equivalent.
 (3) Maximum allowable DC current is that which causes a 30% inductance reduction from the initial value, or coil temperature to rise by 40°C, whichever is smaller. (Reference ambient temperature 20°C).
 Rated DC current for a 10% inductance reduction is provided as well.

TYPE DB320C

TOKO Part Number	Inductance ⁽¹⁾ (μ H)	Tolerance (%)	DC Resistance (Ω) max.	Inductance ⁽³⁾ Decrease Current		Temperature ⁽³⁾ Rise Current +40°C Δ T (A) max.
				-10% (A) max.	-30% (A) max.	
A993AS-3R9M=P3	3.9	± 20	0.08	0.86	1.10	1.38
A993AS-4R7M=P3	4.7	± 20	0.09	0.86	1.08	1.28
A993AS-5R6M=P3	5.6	± 20	0.10	0.73	0.97	1.21
A993AS-6R8M=P3	6.8	± 20	0.11	0.70	0.89	1.19
A993AS-8R2M=P3	8.2	± 20	0.15	0.66	0.85	0.97
A993AS-100M=P3	10	± 20	0.15	0.59	0.74	0.96
A993AS-120M=P3	12	± 20	0.20	0.56	0.69	0.83
A993AS-150M=P3	15	± 20	0.25	0.49	0.62	0.74
A993AS-180M=P3	18	± 20	0.28	0.45	0.56	0.65
A993AS-220M=P3	22	± 20	0.38	0.41	0.52	0.55
A993AS-270M=P3	27	± 20	0.48	0.35	0.45	0.47

Note: =P3 is added to each part number to indicate tape and reel packaging.

TYPICAL CHARACTERISTICS



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