

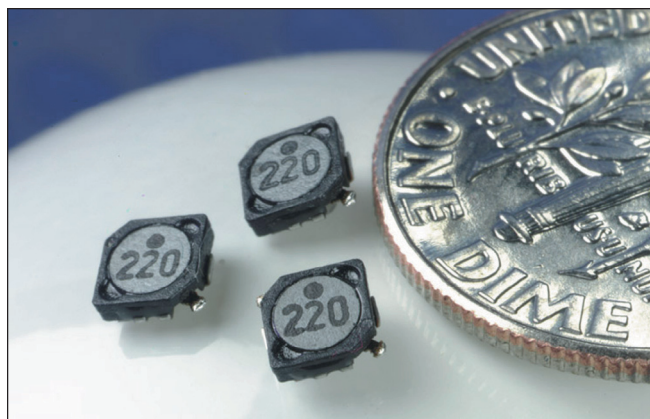
### TYPE D312F

**Inductance Range:** 1.0 - 47 $\mu$ H

**Frequency Range:** 0.1 - 1MHz

### Description

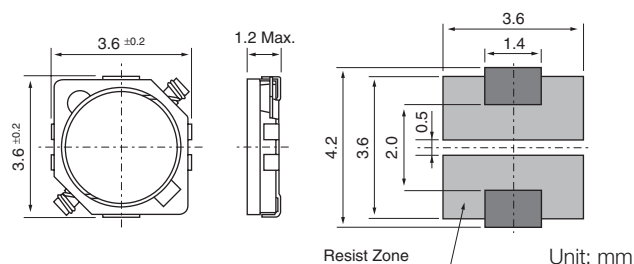
The TOKO D312F Series is an extremely low profile surface mount fixed inductor with a maximum height of 1.2mm. The product is specifically designed for space constrained DC-DC converter applications in portable platforms including wireless handsets, PDA's, and consumer electronics.



### Features

- 3.6mm x 3.6mm footprint ( $\pm 0.2$ mm)
- 1.2mm maximum height
- Reflow solderable
- Packaged on 2000 piece reels

### Dimensions & Recommended Patterns:



### 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.

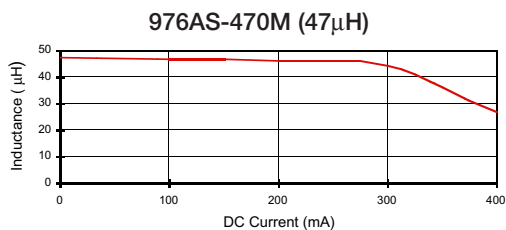
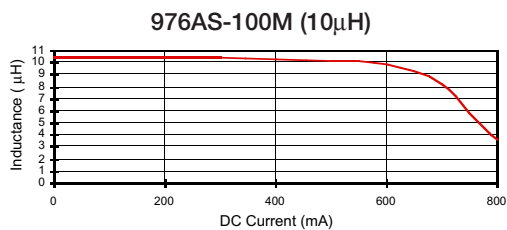
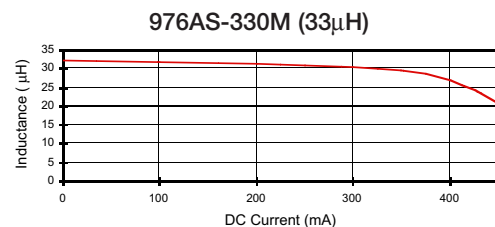
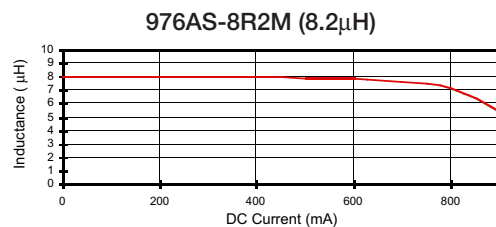
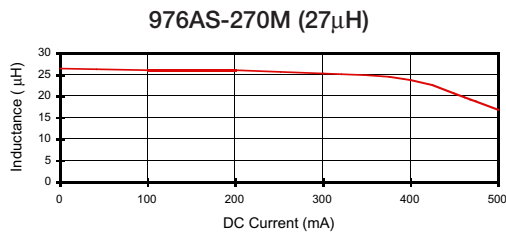
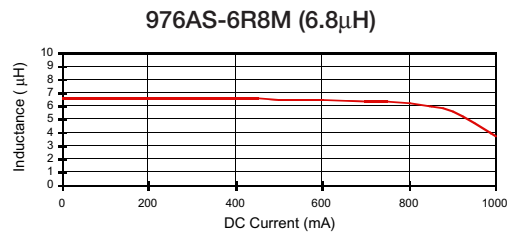
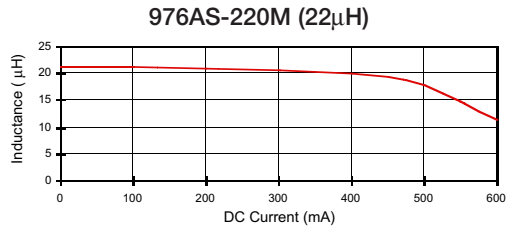
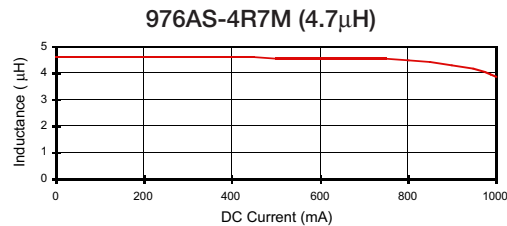
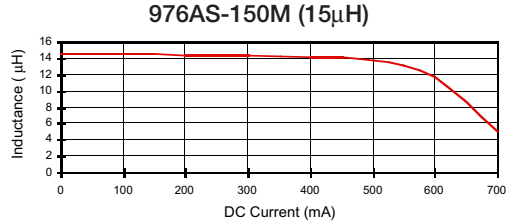
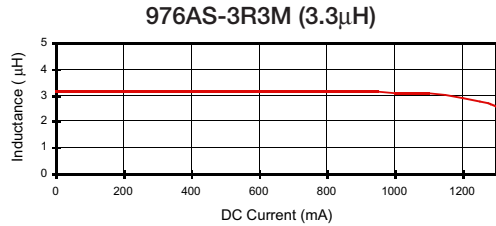
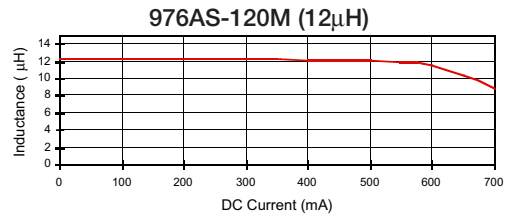
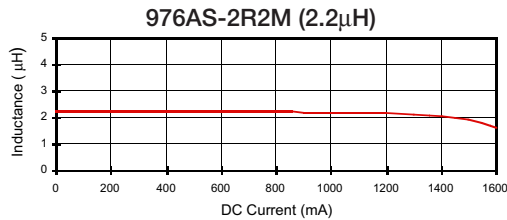
### TYPE D312F

TOKO Part Number	Inductance <sup>(1)</sup> ( $\mu$ H)	Tolerance ( % )	DC <sup>(2)</sup> Resistance ( $\Omega$ ) max.	Inductance <sup>(3)</sup> Decrease Current		Temperature <sup>(3)</sup> Rise Current +40°C $\Delta$ T (A) max.
				-10% (A) max.	-30% (A) max.	
976AS-1R0N=P5	1.0	$\pm 30$	0.12	1.48	1.76	1.12
976AS-1R5M=P5	1.5	$\pm 20$	0.14	1.31	1.56	1.07
976AS-2R2M=P5	2.2	$\pm 20$	0.17	1.08	1.20	0.90
976AS-3R3M=P5	3.3	$\pm 20$	0.26	0.92	1.00	0.68
976AS-4R7M=P5	4.7	$\pm 20$	0.38	0.74	0.83	0.66
976AS-6R8M=P5	6.8	$\pm 20$	0.48	0.63	0.71	0.48
976AS-8R2M=P5	8.2	$\pm 20$	0.56	0.58	0.67	0.44
976AS-100M=P5	10	$\pm 20$	0.79	0.50	0.56	0.47
976AS-120M=P5	12	$\pm 20$	0.90	0.46	0.53	0.43
976AS-150M=P5	15	$\pm 20$	1.01	0.43	0.49	0.36
976AS-220M=P5	22	$\pm 20$	1.46	0.35	0.41	0.34
976AS-270M=P5	27	$\pm 20$	1.98	0.32	0.38	0.29
976AS-330M=P5	33	$\pm 20$	2.26	0.29	0.33	0.28
976AS-470M=P5	47	$\pm 20$	3.28	0.23	0.28	0.20

Note: =P5 is added to each part number to indicate tape and reel packaging.

## SURFACE MOUNT FIXED INDUCTOR

### TYPICAL CHARACTERISTICS



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