IRON POWDER SURFACE MOUNT FIXED INDUCTOR

TYPE FDH1040 / FDH1040B

Inductance Range: 0.36 - 0.56μH *Frequency Range:* 0.1 - 5MHz

Description

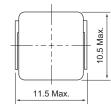
The TOKO FDH1040 / FDH1040B Series is a compact, high-current surface mount fixed inductor with a maximum DC current rating of 24 Amps. Manufactured with a proprietary iron powder composition and process, the product is specifically designed for high current, space constrained DC-DC converter applications in portable computing, point-of-load modules, and computer peripherals.

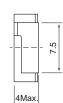
Features

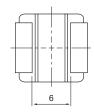
- Compact size: 11.5mm x 10.5mm
 Low profile: 4.0mm maximum
 High DC current: 24.0A at 0.36µH
- Magnetically shielded
- Low DC resistance
- Low audible noise
- Reflow solderable
- Packaged on 500 piece reels
- Lead-free terminations

Dimensions

FDH1040

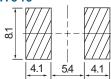




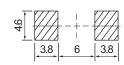


Recommended Patterns:

FDH1040

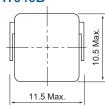


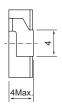
FDH1040B

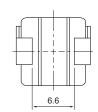


Unit: mm

FDH1040B







Unit: mm

STANDARD PARTS SELECTION GUIDE

- (1) Inductance is measured by LCR-meter 4284A (Agilent) or equivalent.
- (2) DC resistance is measured by Digital Multimeter 34420A (Agilent) or equivalent.
- (3) Maximum allowable DC current is that which causes a 20% inductance reduction from the initial value, or coil temperature to rise by 40°C, whichever is smaller. (Reference ambient temperature 20°C).

TYPE FDH1040 / FDH1040B

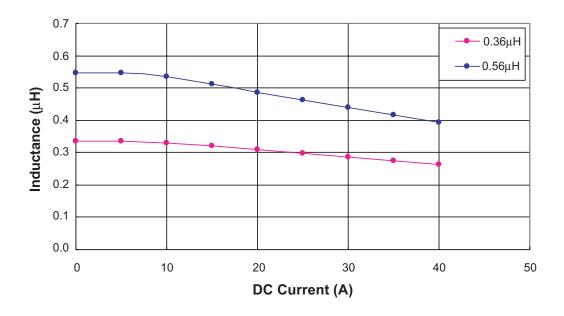
TOKO	Inductance (1)	Tolerance	Test	DC (2)	Inductance (3)	Temperature (3)	Absolute
Part	(μH)	(%)	Freq.	Resistance	Decrease Current	Rise Current	Max.
Number			(kHz)	(m Ω) max.	[-20%] (A) max.	[+40°C] (A) max.	Voltage (V)
FDH1040-R36M=P3	0.36	±20	100	1.4	28.0	24.0	30
FDH1040B-R36M=P3	0.36	±20	100	1.4	28.0	24.0	30
FDH1040-R56M=P3	0.56	±20	100	1.9	22.0	20.0	30
FDH1040B-R56M=P3	0.56	±20	100	1.9	22.0	20.0	30

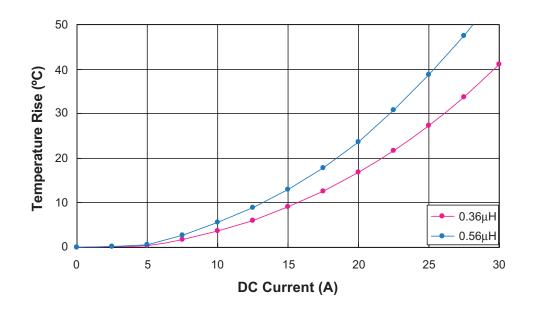
Note: =P3 is added to each part number to indicate tape and reel packaging.



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TYPICAL CHARACTERISTICS







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1250 Feehanville Drive, Mount Prospect, Illinois 60056 Tel: (847) 297-0070 Fax: (847) 699-7864 Web: http://www.tokoam.com