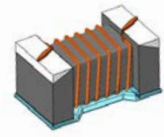


Wire Wound Chip Ferrite Inductor - MWSD-FE Series

Operating Temp. : -40℃~+85℃



FEATURES

- Small chip suitable for surface mounting
- Large inductance with ferrite material
- Single-sided package, thinner than WL-FS series

APPLICATIONS

- Mobile phones, video cameras and other electronic devices
- Bluetooth modules and TWS earphones

PRODUCT IDENTIFICATION

MWSD

①

1608

②

F

③

E

④

2R2

⑤

□

⑥

T

⑦

Type	
MWSD	Wire Wound Chip Inductor

External Dimensions (L×W) (mm)	
1608 [0603]	1.6×0.8
2012 [0805]	2.0×1.25

Material Code	
F	Ferrite

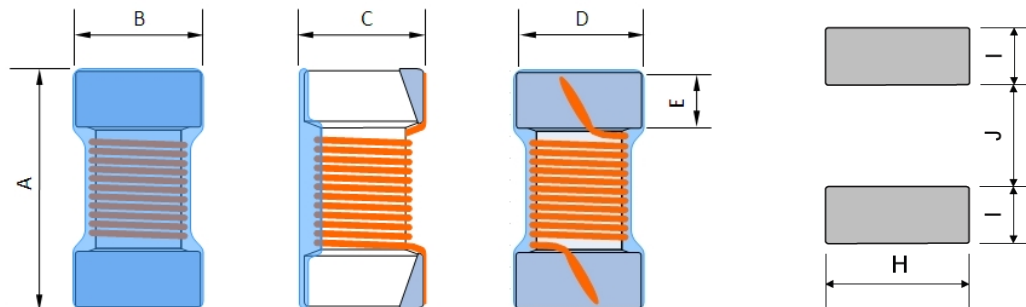
Internal Code	
E	Internal Code

Nominal Inductance	
Example	Nominal Value
2R2	2.2μH
100	10μH

Inductance Tolerance	
K	±10%
M	±20%

Packing	
B	Bulk Package
T	Tape & Reel

SHAPE AND DIMENSIONS



Unit: mm

Series	A	B	C	D Typ.	E Ref.	H Ref.	I Ref.	J Ref.
MWSD1608FE	1.80 Max	1.20 Max	1.00 Max	0.92	0.30	1.15	0.64	0.64
MWSD2012FE	2.40 Max	1.65 Max	1.30 Max	1.28	0.48	1.50	1.02	0.96

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SPECIFICATIONS

MWSD1608FE TYPE

Part Number	Inductance	Tolerance	L Test Freq.	DC Resistance	Typ. Rated Current	Typ. Self-resonant Frequency
Units	μH	-	MHz	Ω	mA	MHz
Symbol	L	-	Freq.	DCR	I _r	S.R.F
MWSD1608FE2R2□T	2.2	K,M	7.9	0.56±30%	580	103
MWSD1608FE4R7□T	4.7	K,M	7.9	0.97±30%	420	51
MWSD1608FE6R8□T	6.8	K,M	7.9	1.50±30%	340	43
MWSD1608FE100□T	10	K,M	2.5	1.85±30%	280	36
MWSD1608FE150□T	15	K,M	2.5	2.60±30%	240	29
MWSD1608FE220□T	22	K,M	2.5	2.80±30%	200	24
MWSD1608FE470□T	47	K,M	2.5	6.65±30%	100	14

MWSD2012FE TYPE

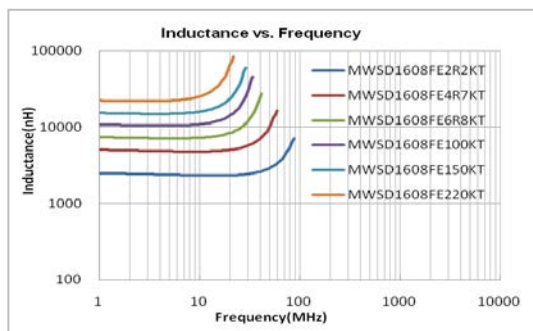
Part Number	Inductance	Tolerance	L Test Freq.	DC Resistance	Typ. Rated Current	Typ. Self-resonant Frequency
Units	μH	-	MHz	Ω	mA	MHz
Symbol	L	-	Freq.	DCR	I _r	S.R.F
MWSD2012FE2R2□T	2.2	K,M	7.9	0.22±30%	1040	87
MWSD2012FE4R7□T	4.7	K,M	7.9	0.43±30%	840	51
MWSD2012FE6R8□T	6.8	K,M	7.9	0.68±30%	700	46
MWSD2012FE100□T	10	K,M	2.5	0.85±30%	560	31
MWSD2012FE150□T	15	K,M	2.5	1.40±30%	380	28
MWSD2012FE220□T	22	K,M	2.5	1.76±30%	340	20

※ □: Please specify the inductance tolerance code (K=±10%, M=±20%).

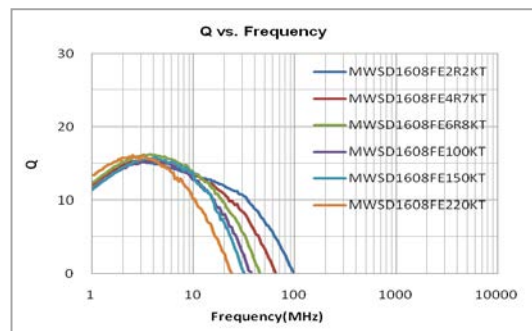
TYPICAL ELECTRICAL CHARACTERISTICS

Inductance vs. Frequency Characteristics

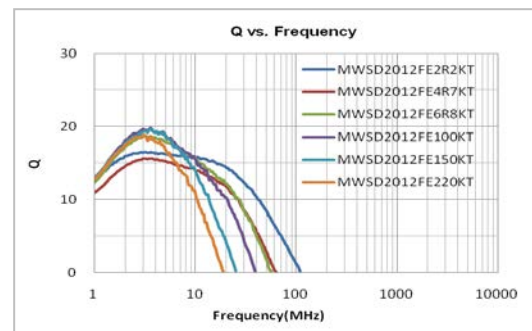
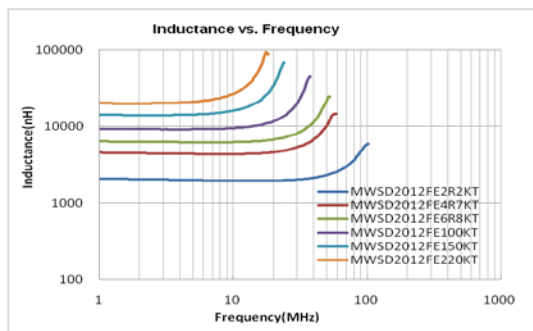
MWSD1608FE TYPE



Q vs. Frequency Characteristics



MWSD2012FE TYPE



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