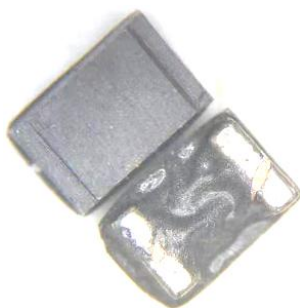


FWISeries



Features

- 1,Very strong solderability by flow soldering , soldering iron.
- 2,Highly accurate dimensions , can be mounted automatically.
- 3,Terminals are highly resistant to pulling force.
- 4,Highly resistant to mechanical shock and pressure.
- 5,Highly reliable in environments of sudden temperature change and humidity. Super Q characteristics. High current, low resistance, TWS noise reduction

Applications

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

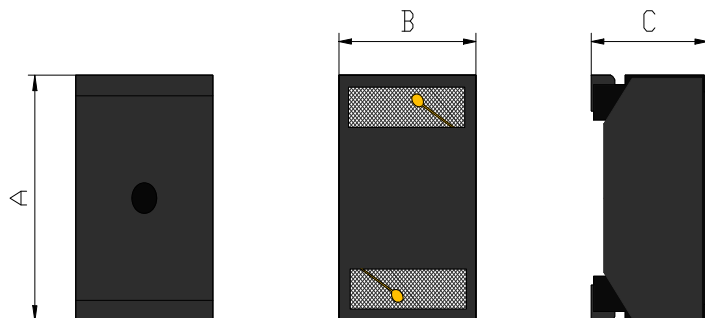
Product Identification

FWIXXXXXHF TL - XXXX
For exampleFWI201212HF TL-2R2M

General Specifications

Test Frequency1.0-7.9MHz
Test Voltage.....50mV
Parameters Test Temp..... 25℃
Operation Temp-25℃ to +105℃
(individual chip without packing, self-temperature rise is not included)
Storage Temp.....-10℃~40℃
Storage Humidity.....<70% RH
Resistance to Soldering Heat.....260℃ for 10 sec

Shape And Dimensions Unit:mm



Marking: color dot

Electrical Schematic PAD Layout



TYPE	A	B	C	H	I	J
		Max	Max			
FWI100505HF	1.19	0.64	0.80	0.66	0.36	0.46
FWI160808HF	1.80	1.30	1.30	1.15	0.64	0.80
FWI201212HF	2.40	1.65	1.40	1.78	1.02	0.76

Electrical Characteristics

Stamp	Inductance (uH)	Q Typ	L/Q Test frequency (MHz)	DCR (Ω) Max	Isat(A) Max	Irms(A) Max	Marking
FWI100505HFTL-2R2M	2.20 ±20%	16	7.9	1.70	0.21	0.11	NA
FWI100505HFTL-4R7M	4.70 ±20%	17	7.9	2.50	0.20	0.09	NA

Note: Isat for inductance drop down 30% from its value without current.

Irms for a 25°C rise above 40°C ambient

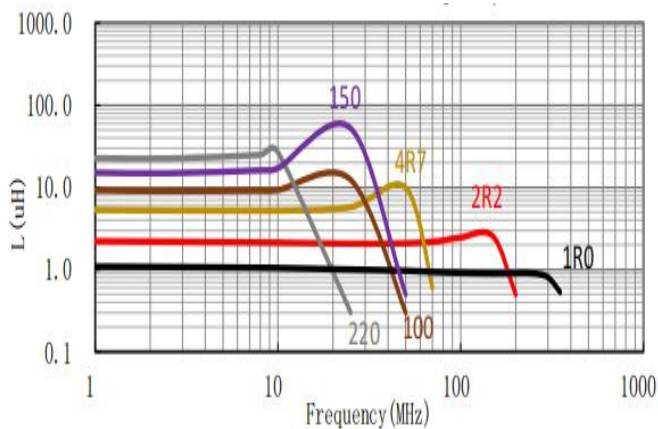
Electrical Characteristics

Stamp	Inductance (uH)	Q Typ	L/Q Test frequency (MHz)	DCR (Ω) ±30%	Isat(A) Typ	Irms(A) Typ	SRF(MHZ) Typ	Marking
FWI160808HFTL-1R0M	1.00 ±20%	19	1.0	0.15	0.45	1.20	350	Black dot
FWI160808HFTL-2R2M	2.20 ±20%	17	1.0	0.30	0.35	0.75	150	Red dot
FWI160808HFTL-4R7M	4.70 ±20%	17	1.0	0.43	0.20	0.60	60	Yellow dot
FWI160808HFTL-100M	10.0 ±20%	18	1.0	1.10	0.14	0.38	35	Brown dot
FWI160808HFTL-150M	15.0 ±20%	18	1.0	1.80	0.12	0.30	26	Violet dot
FWI160808HFTL-220M	22.0 ±20%	18	1.0	2.20	0.09	0.25	24	Gray dot

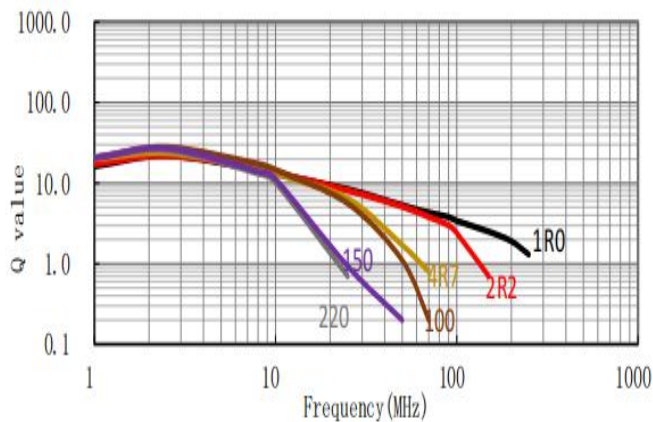
Note: Isat for inductance drop down 10% from its value without current.

Irms for a 25°C rise above 40°C ambient

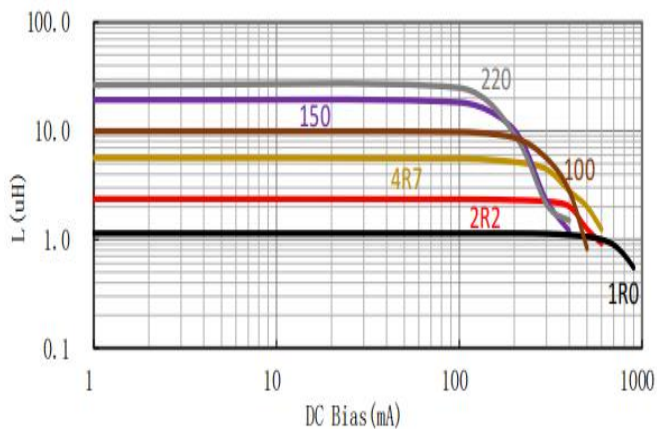
Inductance vs Frequency Characteristics



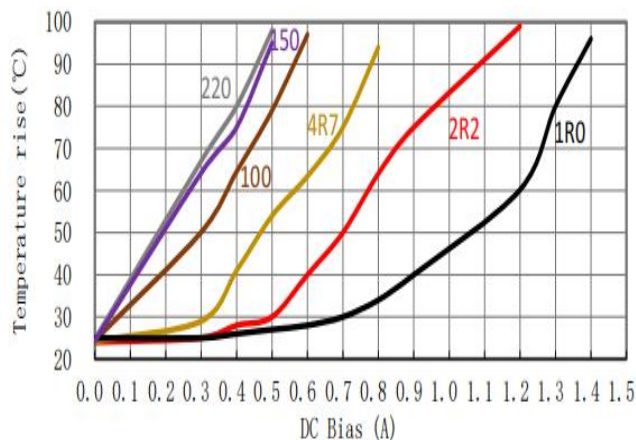
Q vs Frequency Characteristics



Inductance vs DC Bias



Temperature vs DC Bias

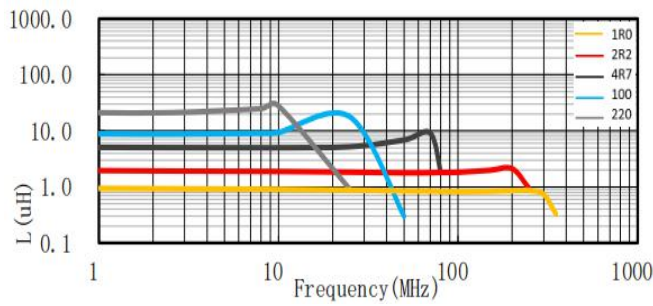


Electrical Characteristics

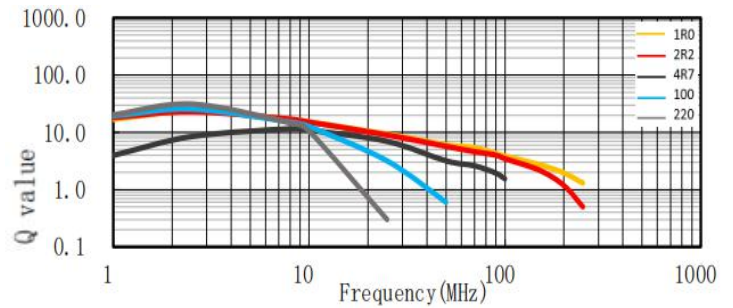
Stamp	Inductance (uH)	Q Typ	L/Q Test frequency (MHz)	DCR (Ω) ±30%	Isat(A) Typ	SRF(MHZ) Min	Marking
FWI201212HFTL-1R0M	1.00±20%	15.0	7.9	0.12	0.90	280	Yellow dot
FWI201212HFTL-2R2M	2.20±20%	15.0	7.9	0.21	0.50	210	Red dot
FWI201212HFTL-4R7M	4.70±20%	12.0	7.9	0.40	0.35	45.0	NA
FWI201212HFTL-100M	10.0±20%	20.0	2.5	0.64	0.30	20.0	Blue dot
FWI201212HFTL-220M	22.0±20%	25.0	2.5	1.98	0.20	12.0	Gray dot

Note: Isat for inductance drop down 10% from its value without current

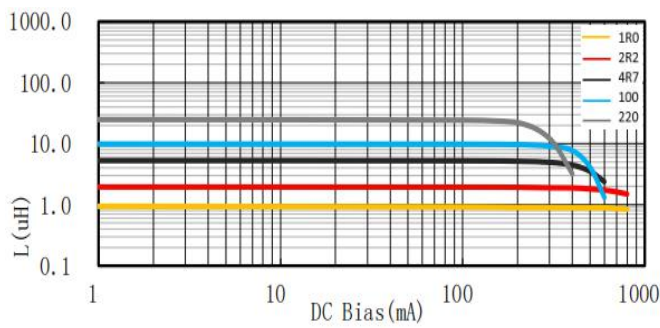
Inductance vs Frequency Characteristics



Q vs Frequency Characteristics



Inductance vs DC Bias



Temperature vs DC Bias

