

A 3D diagram of a transformer. It features a rectangular magnetic core with two vertical legs. Two coils of wire are wound around the legs. The primary coil, with 5 turns, is on the left leg. The secondary coil, with 10 turns, is on the right leg. The top of the core is shown in white, and the bottom is in light blue.

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- A 3D diagram of a magnetic core with a rectangular cross-section. The core is made of a dark grey material with a light blue base. A coil of orange wire is wound around the central part of the core. The coil has 10 turns. The ends of the coil are connected to two terminals on the top surface of the core. The diagram illustrates the concept of magnetic flux linkage, where the magnetic field lines (represented by blue lines in the adjacent diagram) pass through the core and the coil.

A 3D diagram of a transformer. It features a rectangular magnetic core with two vertical legs. Two coils of wire are wound around the legs. The primary coil is on the left leg, and the secondary coil is on the right leg. The coils are represented by orange lines. The top of the core is white, and the bottom is light blue.

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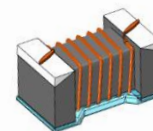
A 3D diagram of a transformer. It features a rectangular magnetic core with two vertical legs. Two coils of wire are wound around the core. The primary coil, with 10 turns, is on the left leg. The secondary coil, with 20 turns, is on the right leg. The coils are represented by orange lines.

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Design Code	
□ □ □	Design Code
*Standard product is blank	



A 3D perspective diagram of a transformer. It features a grey magnetic core with two vertical legs. Two orange coils are wound around the legs. The left coil has 5 turns, and the right coil has 3 turns. Each coil is connected to a terminal on top of its respective leg.

A 3D diagram of a transformer. It features a rectangular magnetic core with two vertical legs. Two coils of orange wire are wound around the legs. The left leg has 5 turns, and the right leg has 10 turns. The top of the core is white, and the bottom is light blue.

SPECIFICATIONS

MWSD0603F TYPE

Part Number	Inductance	Tolerance	L Test Freq.	Min. Self-resonant Frequency	Max. DC Resistance	Max. Rated Current
Units	nH	-	MHz	GHz	Ω	mA
Symbol	L	-	Freq.	S.R.F	DCR	I _r
MWSD0603F33N□T	33	K	7.9	3.4	0.15	340
MWSD0603F51N□T	51	K	7.9	2.9	0.30	280
MWSD0603F68N□T	68	K	7.9	2.6	0.33	220
MWSD0603F91N□T	91	K	7.9	2.35	0.37	200
MWSD0603FR11□T	110	K	7.9	2.1	0.48	170
MWSD0603FR14□T	140	K	7.9	2.0	0.65	160
MWSD0603FR17□T	170	K	7.9	1.85	0.86	140
MWSD0603FR20□T	200	K	7.9	1.7	1.25	110

MWSD0703F TYPE

Part Number	Inductance	Tolerance	L Test Freq.	Min. Self-resonant Frequency	Max. DC Resistance	Max. Rated Current
Units	nH	-	MHz	GHz	Ω	mA
Symbol	L	-	Freq.	S.R.F	DCR	I _r
MWSD0703F27N□T	27	J	7.9	3.9	0.11	480
MWSD0703F72N□T	72	J	7.9	2.6	0.4	210
MWSD0703FR10□T	100	J	7.9	2.3	0.5	200
MWSD0703FR15□T	150	J	7.9	1.8	0.6	190
MWSD0703FR27□T	270	J	7.9	1.6	1.15	130
MWSD0703FR43□T	430	J	7.9	0.9	1.85	100
MWSD0703FR56□T	560	J	7.9	1.0	2.8	90

MWSD1005F TYPE

Part Number	Inductance	Tolerance	L Test Freq.	Min. Self-resonant Frequency	Max. DC Resistance	Max. Rated Current
Units	nH	-	MHz	GHz	Ω	mA
Symbol	L	-	Freq.	S.R.F	DCR	I _r
MWSD1005F20N□T	20	J,K,M	7.9	2600	0.050	1600
MWSD1005F22N□T	22	J,K,M	7.9	2500	0.065	1300
MWSD1005F33N□T	33	J,K,M	7.9	2300	0.060	1400
MWSD1005F36N□T	36	J,K,M	7.9	2300	0.075	1300
MWSD1005F39N□T	39	J,K,M	7.9	2200	0.115	830
MWSD1005F51N□T	51	J,K,M	7.9	1930	0.070	1100
MWSD1005F56N□T	56	J,K,M	7.9	1900	0.095	1000
MWSD1005F72N□T	72	J,K,M	7.9	1650	0.100	1000
MWSD1005F78N□T	78	J,K,M	7.9	1600	0.130	970
MWSD1005F85N□T	85	J,K,M	7.9	1600	0.130	970
MWSD1005F96N□T	96	J	100	1100	0.160	730
MWSD1005FR10□T	100	J,K,M	7.9	1400	0.160	900
MWSD1005FR14□T	140	J,K,M	7.9	1220	0.260	630
MWSD1005FR18□T	180	J,K,M	7.9	1150	0.280	560

SPECIFICATIONS

MWSD1005F TYPE

Part Number	Inductance	Tolerance	L Test Freq.	Min. Self-resonant Frequency	Max. DC Resistance	Max. Rated Current
Units	nH	-	MHz	GHz	Ω	mA
Symbol	L	-	Freq.	S.R.F	DCR	I _r
MWSD1005FR20□T	200	J,K,M	7.9	1000	0.440	400
MWSD1005FR22□T	220	J,K,M	7.9	1150	0.530	380
MWSD1005FR25□T	250	J,K,M	7.9	900	0.450	520
MWSD1005FR27□T	270	J,K,M	7.9	860	0.550	360
MWSD1005FR30□T	300	J,K,M	7.9	860	0.410	420
MWSD1005FR33□T	330	J,K,M	7.9	820	0.560	350
MWSD1005FR36□T	360	J,K,M	7.9	810	0.575	360
MWSD1005FR39□T	390	J,K,M	7.9	760	0.750	300
MWSD1005FR42□T	420	J,K,M	7.9	700	0.700	340
MWSD1005FR47□T	470	J,K,M	7.9	650	0.730	310
MWSD1005FR56□T	560	J,K,M	7.9	600	0.920	200
MWSD1005F2R2□T	2200	K,M	1	100	1.8	170

MWSD1005F-M01 TYPE

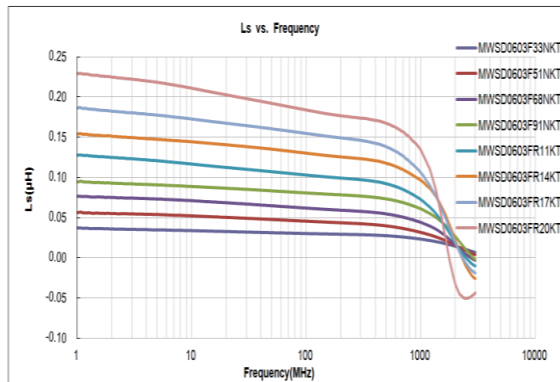
Part Number	Inductance	Tolerance	L Test Freq.	Min. Self-resonant Frequency	Max. DC Resistance	Max. Rated Current
Units	nH	-	MHz	GHz	Ω	mA
Symbol	L	-	Freq.	S.R.F	DCR	I _r
MWSD1005F18N□TM01	18	J,K,M	100	3000	0.046	1400
MWSD1005F20N□TM01	20	J,K,M	100	3000	0.028	2200
MWSD1005F33N□TM01	33	J,K,M	100	1800	0.065	1300
MWSD1005F34N□TM01	34	J,K,M	100	2500	0.036	1800
MWSD1005F48N□TM01	48	J,K,M	100	1400	0.078	1100
MWSD1005F53N□TM01	53	J,K,M	100	2000	0.060	1300
MWSD1005F68N□TM01	68	J,K,M	100	1300	0.120	820
MWSD1005F70N□TM01	70	J,K,M	100	1300	0.120	820
MWSD1005F77N□TM01	77	J,K,M	100	2000	0.090	1100
MWSD1005F96N□TM01	96	J,K,M	100	1100	0.160	730
MWSD1005FR11□TM01	106	J,K,M	100	1500	0.144	850
MWSD1005FR13□TM01	130	J,K,M	100	1000	0.230	640
MWSD1005FR14□TM01	140	J,K,M	100	1000	0.216	650
MWSD1005FR16□TM01	160	J,K,M	100	900	0.330	480
MWSD1005FR18□TM01	180	J,K,M	100	1000	0.312	560
MWSD1005FR20□TM01	200	J,K,M	100	800	0.470	390
MWSD1005FR22□TM01	220	J,K,M	100	1100	0.470	450
MWSD1005FR27□TM01	270	J,K,M	100	730	0.520	420
MWSD1005FR33□TM01	330	J,K,M	100	520	0.560	390
MWSD1005FR39□TM01	390	J,K,M	100	350	0.620	370
MWSD1005FR42□TM01	420	J,K,M	10	320	0.620	370
MWSD1005FR47□TM01	470	J,K,M	10	380	0.660	350
MWSD1005FR56□TM01	560	K,M	10	300	0.710	300
MWSD1005F2R2□TM01	2200	K,M	1	100	1.80	170

※ □: Please specify the inductance tolerance code (J=±5%, K=±10%, M=±20%).

TYPICAL ELECTRICAL CHARACTERISTICS

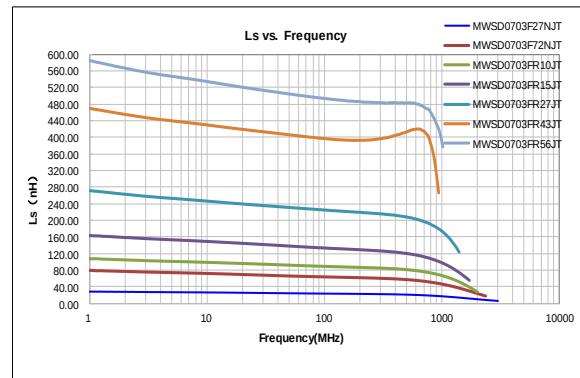
MWSD0603F TYPE

Inductance vs. Frequency Characteristics



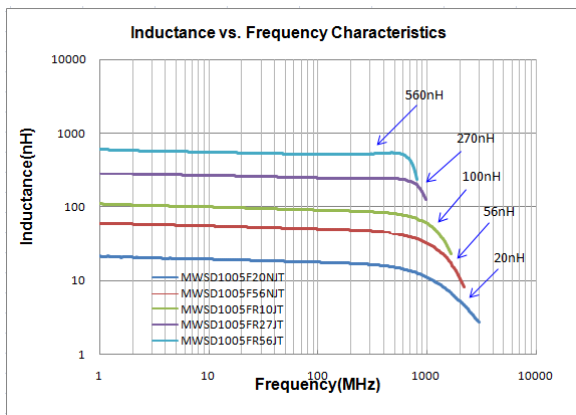
MWSD0703F TYPE

Inductance vs. Frequency Characteristics

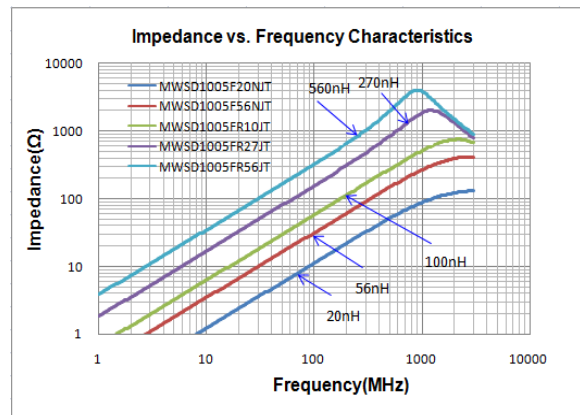


MWSD1005F TYPE

Inductance vs. Frequency Characteristics

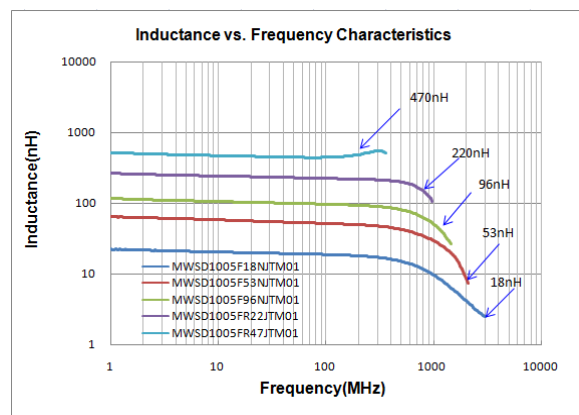


Impedance vs. Frequency Characteristics



MWSD1005F-M01 TYPE

Inductance vs. Frequency Characteristics



Impedance vs. Frequency Characteristics

