



TDK's New Winding Type Chip Inductor

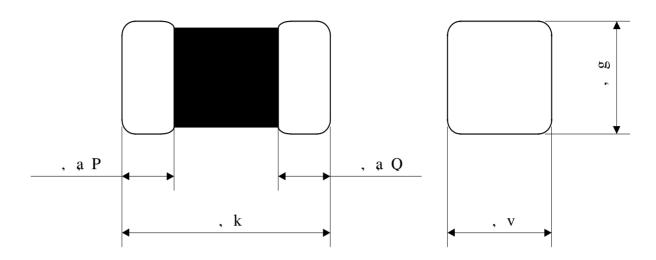
GLF,GLC Series





Area[mm ²]	Height[mm]	0.80mm	1.25mm	1.80mm
1.28mm ²	1.60X0.80	GLF1608Type L:1uH to 22uH Rdc:0.70ohm(10uH) Idc:90mA(10uH)	GLF_Type:	Low Rdc Type Low Profile Type High Idc Type
2.50mm ²	2.00X1.25	GLF201208Type L:1uH to 47uH Rdc:1.10ohm(10uH) Idc:170mA(10uH)	GLF2012Type L:1uH to 100uH Rdc:0.36ohm(10uH) Idc:140mA(10uH)	
4.50mm ²	2.50X1.80		GLF251812Type L:1uH to 100uH Rdc:0.60ohm(10uH) Idc:325mA(10uH)	GLF2518Type L:1uH to 100uH Rdc:0.20ohm(10uH) Idc:210mA(10uH) GLC2518Type L:1uH to 100uH Rdc:0.30ohm(10uH) Idc:300mA(10uH)





	L	W	Н	B1	B2	Weight
	[mm]	[mm]	[mm]	[mm]	[mm]	[mg]
	±0.10	±0.10	±0.10	±0.15	±0.15	
GLF1608Type	1.60	0.80	0.80	0.40	0.40	5mg
GLF2012Type	2.00	1.25	1.25	0.50	0.50	15mg
GLF2518Type	2.50	1.80	1.80	0.60	0.60	35mg
GLF201208Type	2.00	1.25	0.80	0.45	0.45	10mg
GLF251812Type	2.50	1.80	1.25	0.50	0.50	25mg
GLC2518Type	2.50	1.80	1.80	0.60	0.60	35mg



Electrical Characteristics [GLF1608Type]



	Inductance	Rdc[ohm]	ldc[mA]		
ITEM	&		L:10%Down	L:20%Down	temp. has to 20Deg.C
	Tolerance	±30%	Max.	Max.	Max.
GLF1608T1R0M	1.0µH±20%	0.17	125	220	400
GLF1608T2R2M	2.2µH±20%	0.33	85	160	275
GLF1608T4R7M	4.7μH±20%	0.55	70	115	220
GLF1608T100M	10μH±20%	0.70	50	90	180
GLF1608T220M	22µH±20%	3.00	35	60	100



Electrical Characteristics [GLF2012Type]



Inductance		Rdc[ohm]	Idc[mA]		
ITEM	&		L:10%Down	L:20%Down	temp. has to 20Deg.C
	Tolerance	±30%	Max.	Max.	Max.
GLF2012T1R0M	1.0µH±20%	0.07	275	400	850
GLF2012T2R2M	2.2µH±20%	0.10	210	300	700
GLF2012T4R7M	4.7µH±20%	0.24	120	200	450
GLF2012T100K	10μH±10%	0.36	100	140	360
GLF2012T220K	22µH±10%	1.00	75	100	220
GLF2012T470K	47μH±10%	1.70	50	75	170
GLF2012T101K	100μH±10%	4.00	30	50	110



Electrical Characteristics [GLF2518Type]



	Inductance	Rdc[ohm]] Idc[mA]		
ITEM	&		L:10%Down	L:20%Down	temp. has to 20Deg.C
	Tolerance		Max.	Max.	Max.
GLF2518T1R0M	1.0µH±20%	0.05±30%	500	675	1200
GLF2518T2R2M	2.2µH±20%	0.08±30%	340	450	950
GLF2518T4R7M	4.7μH±20%	0.11±30%	240	320	800
GLF2518T100K	10μH±10%	0.20±20%	165	210	600
GLF2518T220K	22µH±10%	0.45±20%	115	150	400
GLF2518T470K	47μH±10%	0.85±20%	85	100	275
GLF2518T101K	100μH±10%	1.90±20%	55	75	175



Electrical Characteristics [GLF201208Type]



	Inductance	Rdc[ohm]] Idc[mA]		
ITEM	&		L:10%Down	L:20%Down	temp. has to 20Deg.C
	Tolerance		Max.	Max.	Max.
GLF201208T1R0M	1.0µH±20%	0.19±20%	340	460	650
GLF201208T2R2M	2.2µH±20%	0.56±20%	220	300	350
GLF201208T4R7M	4.7µH±20%	0.74±20%	160	230	300
GLF201208T100M	10μH±20%	1.10±20%	130	170	250
GLF201208T220M	22µH±20%	3.50±20%	80	110	150
GLF201208T470M	47μH±20%	5.30±20%	60	90	120



Electrical Characteristics [GLF251812Type]



	Inductance	Rdc[ohm]	n] Idc[mA]		
ITEM	&		L:10%Down	L:20%Down	temp. has to 20Deg.C
	Tolerance		Max.	Max.	Max.
GLF251812T1R0M	1.0µH±20%	0.10±20%	650	800	900
GLF251812T2R2M	2.2µH±20%	0.20±20%	450	600	625
GLF251812T4R7M	4.7μH±20%	0.38±20%	275	450	450
GLF251812T100M	10μH±20%	0.60±20%	200	325	350
GLF251812T220M	22µH±20%	1.20±20%	140	250	250
GLF251812T470M	47μH±20%	2.50±20%	100	175	175
GLF251812T101M	100μH±20%	4.70±20%	80	125	125



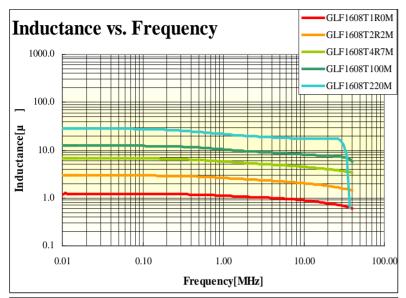
Electrical Characteristics [GLC2518Type]

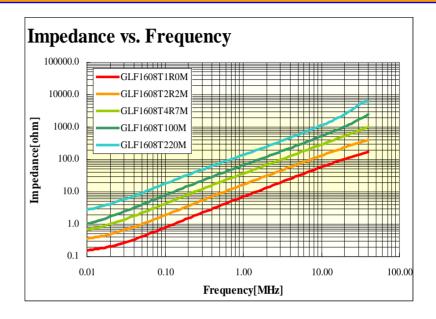


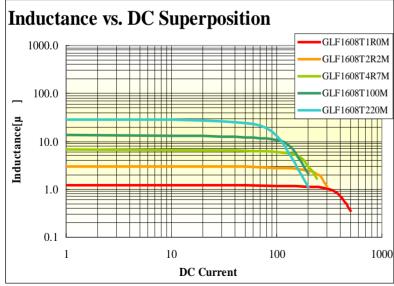
Inductance		Rdc[ohm]	ldc[mA]		
ITEM	&		L:10%Down	L:20%Down	temp. has to 20Deg.C
	Tolerance		Max.	Max.	Max.
GLC2518T1R0M	1.0µH±20%	0.08±30%	850		980
GLC2518T2R2M	2.2µH±20%	0.13±30%	650		750
GLC2518T4R7M	4.7μH±20%	0.20±30%	475		600
GLC2518T100K	10μH±10%	0.36±20%	350		470
GLC2518T220K	22µH±10%	0.90±20%	225		300
GLC2518T470K	47μH±10%	1.90±20%	170		200
GLC2518T101K	100μH±10%	3.50±20%	110		150



Typical Electrical Characteristics [GLF1608Type] 🕸 🕇 🔼 👢

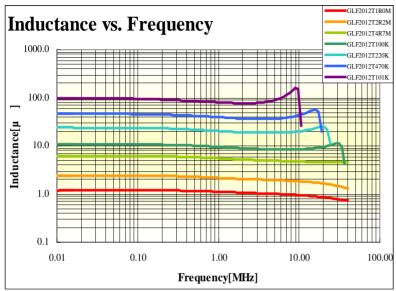


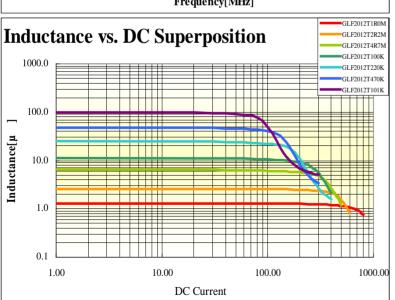


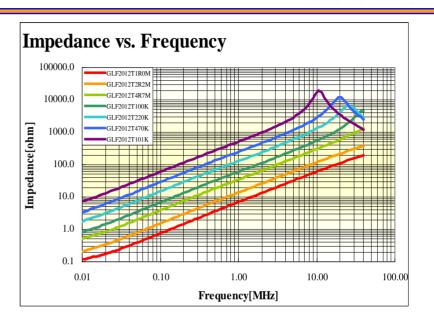




Typical Electrical Characteristics [GLF2012Type] 🕸 🕇 🗀 🕻 👢

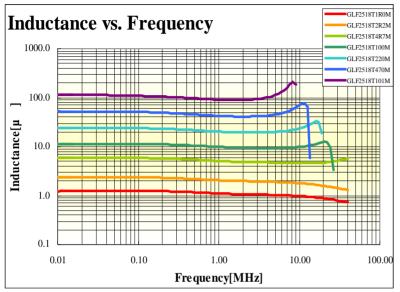


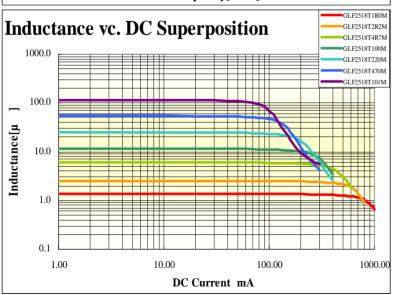


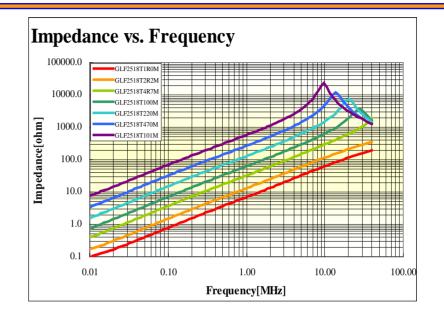




Typical Electrical Characteristics [GLF2518Type] 🥸 TDK

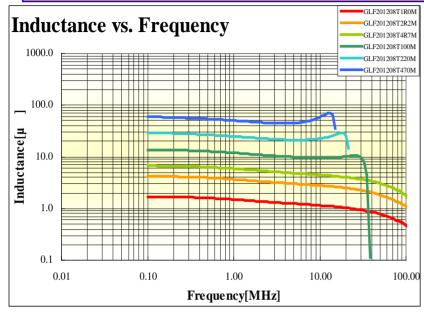


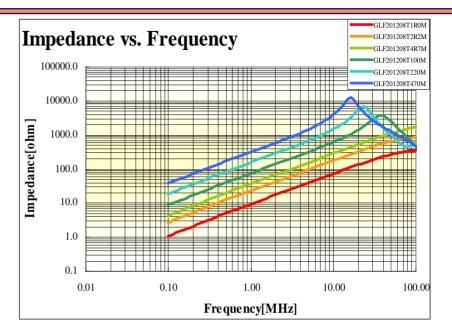


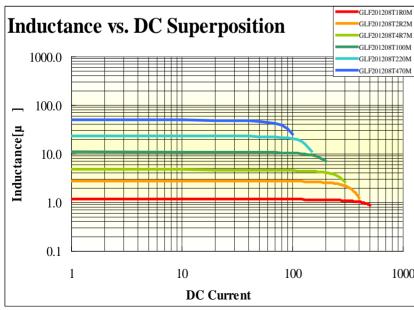




Typical Electrical Characteristics [GLF201208Type] 🕸 🕇 🗀 🕻 🦼



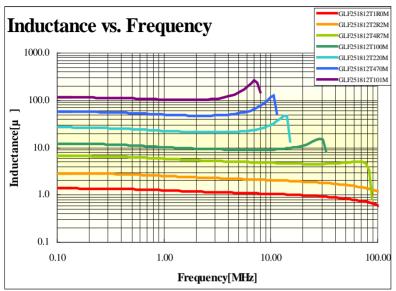


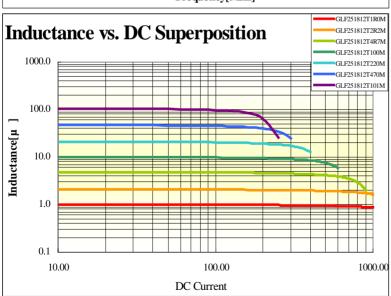


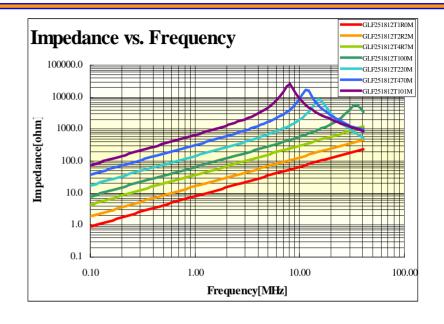
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Typical Electrical Characteristics [GLF251812Type] 🥸 TDK

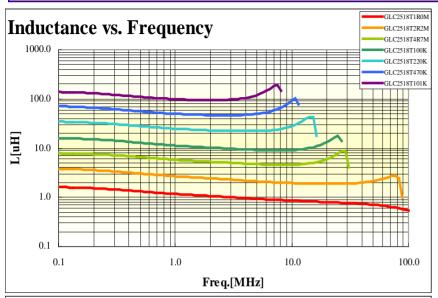


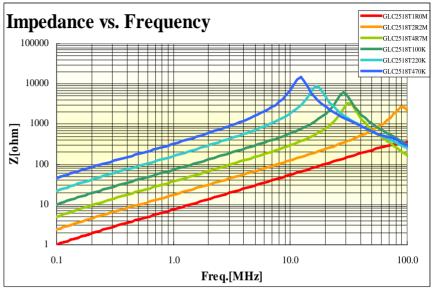


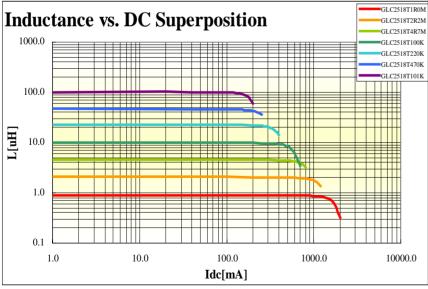




Typical Electrical Characteristics [GLC2518Type] 🕁 🕇 🗀 🕻 🏾









Ratings

Temperature rise: 20C° max.

Storage temperature range: -40C° to 105C°

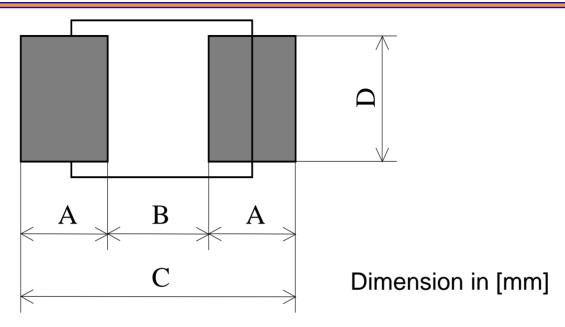
Operating temperature range: -20C° to 105C°

Country of origin

Japan

(TDK Shonai Manufacturing Corporation/Yamagata)





	A	В	С	D
	[mm]	[mm]	[mm]	[mm]
GLF1608Type	0.70	0.70	2.10	0.70
GLF2012Type	0.80	1.00	2.60	0.80
GLF201208Type	0.00	1.00	2.00	0.80
GLF2518Type				
GLF251812Type	0.90	1.30	3.10	1.60
GLC2518Type				



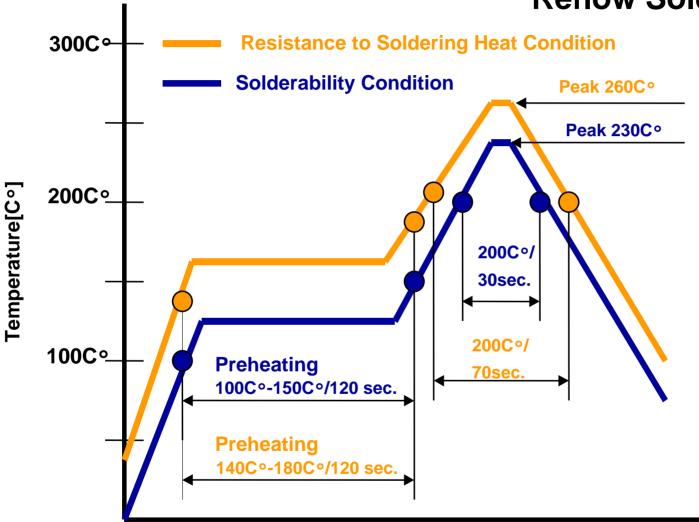
Test Item	Test Condition	Specification	TEST RESULT
Temperature characteristics	The test shall be performed after the sample has stabilized in an ambient temperature of -40 to +105 ,and the value calculated based on the value applicable in a normal temperature of +20 .	L ₂₀ ±10%	L -40C 20C 105C Avg3.91 0.00 3.81 Max3.09 0.00 4.79 Min4.55 0.00 2.50
Thermal shock	The test shall be performed upon completion of 100 cycles in accordance with the conditions in the figure below, the measurement shall be made after the sample has been left in a normal temperature and normal humidity more than 12hours. +105 +20 -40 30mig 30mig 10mig	No mechanical damege. L/Lo ±10%	L Initial Final Avg. 0.00 0.22 Max. 0.00 1.38 Min. 0.00 -0.69
Low temperature storage	This test shall be performed upon completion of 1000±12hours in an atmosphere with a temperature of -40±2 Upon completion of the test, the measurement shall be made after The sample has been left in a normal temperature and normal humidity more than 12hours.	No mechanical damege. L/Lo ±10%	L Initial Final Avg. 0.00 1.22 Max. 0.00 3.56 Min. 0.00 -0.32
Continuous operation in high temperature	The sample shall be left for 1000±12hours in an atmosphere with a temperature of +105±2 , under supplying rated current. Upon completion of the test, the measurement shall be made after the sample has been left in a normal temperature and normal humidiy more than 12hours.	No mechanical damege. L/Lo ±10%	L Initial Final Avg. 0.00 0.75 Max. 0.00 1.52 Min. 0.00 0.22
Continuous operation in moisture	The sample shall be left for 1000±12hours in an atmosphere with a temperature of +60±3 and a humidity(RH)of 90-95%,under supplying rated current. Upon completion of the test, the measurement shall be made after the sample has been left in a normal temprature and normal humidity mora than 12hours.	No mechanical damege. L/Lo ±10%	L Initial Final Avg. 0.00 0.51 Max. 0.00 2.14 Min. 0.00 -0.49



Recommended Soldering Conditions



Reflow Soldering

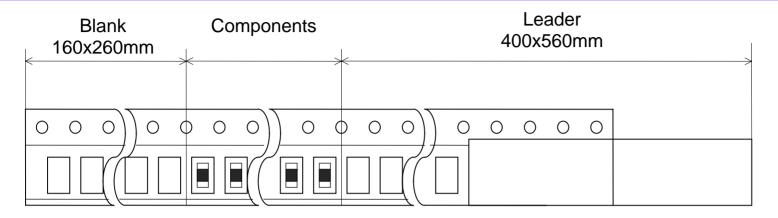


Time [sec.]



Technical Part and Leader Part Tape





	Packing number
GLF1608Type	4 000piooos
GLF201208Type	4,000pieces
GLF2012Type	
GLF2518Type	2,000pieces
GLF251812Type	z,000pieces
GLC2518Type	

