

For High frequency

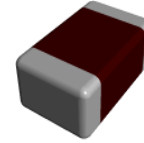
MLH2012

Multilayer Power Inductor

K tolerance

Features

Multilayer power inductor for High frequency.
Inductance is 22nH.
Completely lead-free product and support lead-free solder.



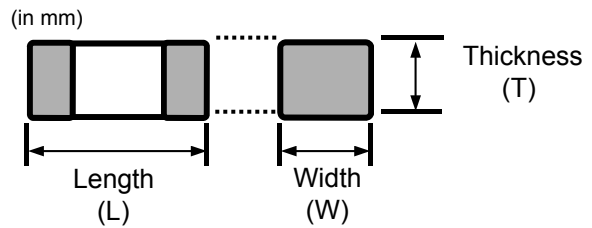
MLH series

Application

The choke coil of power circuit usage.
Especially, PA, mobile phone .

Dimensions

Series	L (mm)	W (mm)	T (mm)
MLH1005	1.0 +/-0.05	0.50 +/- 0.05	0.55 Max
MLH2012	2.0 +/- 0.20	1.25 +/- 0.20	0.95 Max



Product Identification

MLH **2012** **F** **22N** **K** **T**
(1) (2) (4) (5) (6) (7)

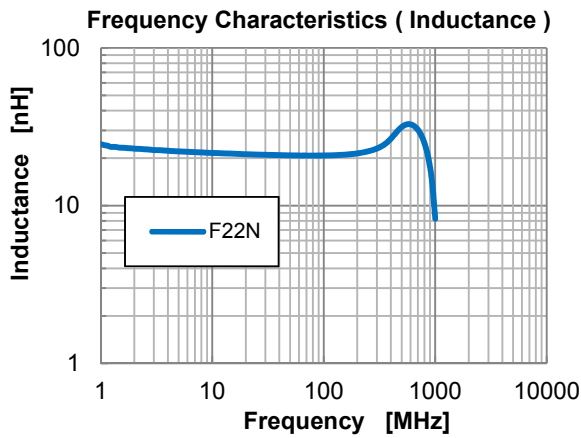
Series name		Dimensions L x W size mm [inch]		Characteristic type		Inductance		Inductance Tolerance		Packaging style	
MLH	Power Inductor For High Freq.			F	Very High Frequency	22N	22 nH	M	+/- 20%	T	Taping reel
		1005 [0402]	1.0 x 0.05	W	High Frequency High Current	47N	47 nH	K	+/- 10%		
		2012 [0805]	2.0 x 1.25								

Electrical Characteristics

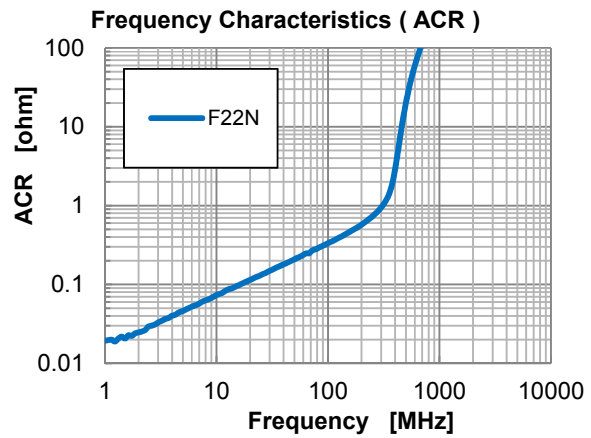
Case Size [mm]		type	Item	L [nH] +/- 10%	SRF [MHz] typ.	DCR [mOhm] +/-30%	Isat [A]	Itemp [A]
L x W	T						Typ.	Rated Current
2012	0.95 Max	Very High Frequency	MLH2012F22NK	22	1000	44	3.0	1.85

Isat : Depend on the Inductance Saturation. (-30% Reduction from Nominal value).
Itemp : Depend on the self temperature rise. (40deg.C Max.)

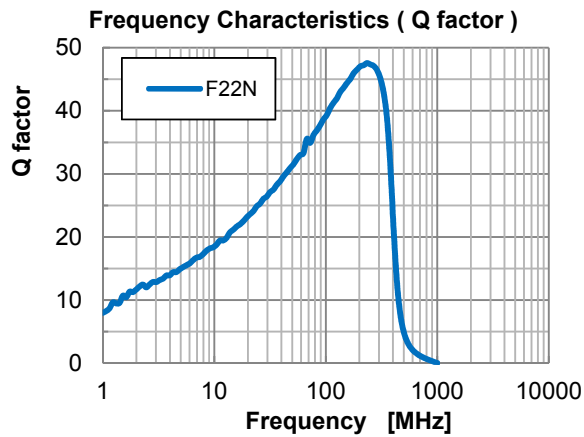
Frequency Characteristics (Inductance)



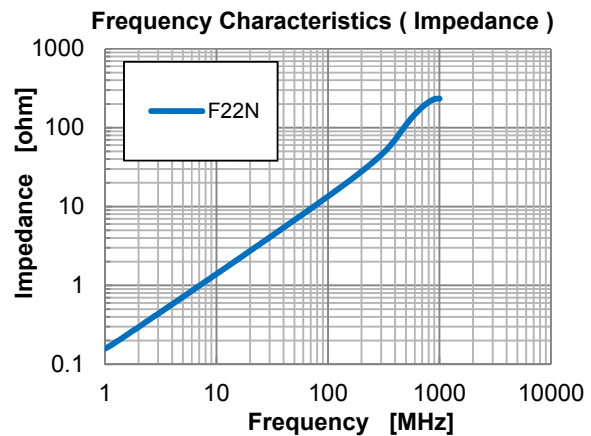
Frequency Characteristics (AC Resistance)



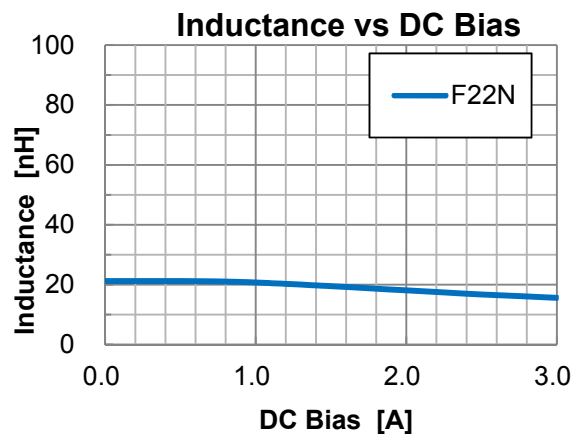
Frequency Characteristics (Q factor)



Frequency Characteristics (Impedance)



Inductance vs. DC Bias

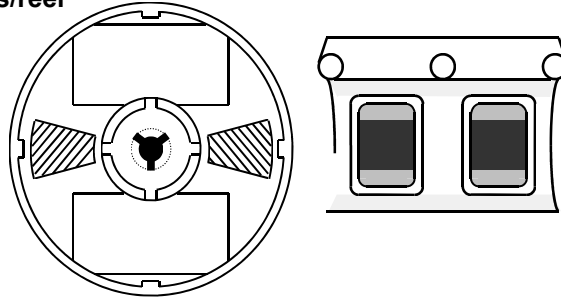


PACKAGING

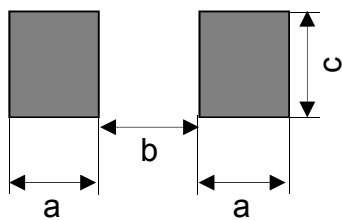
MLH1005 t=0.55 mm Max : 10,000 pcs/reel

MLH1608 t=0.95 mm Max : 4,000 pcs/reel

MLH2012 t=0.95 mm Max : 4,000 pcs/reel



Recommended Land Pattern



(in mm)			
Type	a	b	c
1005	0.5	0.4	0.5
1608	0.6	0.8	0.8
2012	0.8	1.0	1.2

RECOMMENDED SOLDERING CONDITION

