

Multilayer Ferrite Power Inductor

For High Frequency

MLH2012 series

SRF

High Freq.

For SW Freq.

20 to 100MHz

Eco

Low DCR

Tolerance

K tolerance

L x W size mm (inch)	1005 mm (0402 inch)	1608 mm (0603 inch)	2012 mm (0805 inch)
L value tolerance			
K tolerance	<u>MLH1005</u>	<u>MLH1608</u>	<u>MLH2012</u> (22 to 47nH)
M tolerance		<u>MLH1608</u>	<u>MLH2012</u> (22 to 47nH)

TDK-EPC CORPORATION

Made in Japan



CAUTION

Please contact our Sales office when your application are considered the following:

1)The device's failure or malfunction may directly endanger human life

(e.g. application for automobile/aircraft/medical/nuclear power devices, etc.)

製品の故障や誤動作が直接人命に係わるような機器（自動車・航空機・医療機器・原子力機器など）

に本製品の使用をご検討される場合、弊社営業へご連絡ください。

Please note that solder ability may degrade in case of long-term storage.

長期保管した場合、はんだ濡れ性が劣化する可能性がありますので、ご注意願います。

For High frequency

MLH2012

Multilayer Power Inductor

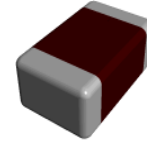
K tolerance

Features

Multilayer power inductor for High frequency.

Inductance is 22 to 47nH.

Completely lead-free product and support lead-free solder.



MLH series

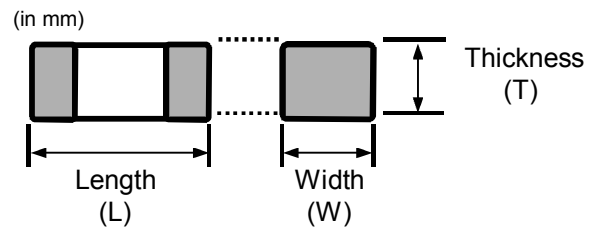
Application

The choke coil of power circuit usage.

Especially, PA, mobile phone .

Dimensions

Series	L (mm)	W (mm)	T (mm)
MLH1608	1.6 +/-0.15	0.80 +/- 0.15	0.95 Max
MLH2012	2.0 +/- 0.20	1.25 +/- 0.20	0.95 Max



Product Identification

MLH

(1)

2012

(2)

F

(4)

22N

(5)

M

(6)

T

(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	F22N	22 nH	M	+/- 20%	T	Taping reel
		1608 [0603]	1.6 x 0.80	W	High Frequency High Current	F47N	47 nH	K	+/- 10%		
		2012 [0805]	2.0 x 1.25	H	Very High Frequency High Current						

For High frequency

MLH2012

Multilayer Power Inductor


ELECTRICAL CHARACTERISTICS**Tentative SPEC**

Case Size [mm]		Characteristic type	Item	L [nH] +/- 10%	SRF [MHz] typ.	DCR [mOhm] +/-30%	IDC-1 [A]	IDC-2 [A]	Status
L x W	T						Typ.	Rated Current	
2012	0.95 Max	Very High Frequency	MLH2012F22NK	22	1000	44	3.0	1.85	NEW
			MLH2012F33NK	33	850	58	2.7	1.6	NEW
			MLH2012F47NK	47	700	64	2.0	1.55	NEW

D.S : Design stage
 S.S : Sampling stage
 M.P : Mass Production
 NEW : NEW Item (Mass Production)

Idc-1 : Depend on the Inductance Saturation. (-30% Reduction from Nominal value).
 Idc-2 : Depend on the self temperature rise. (40deg.C Max.)

For High frequency

MLH2012**2012 Characteristics data**

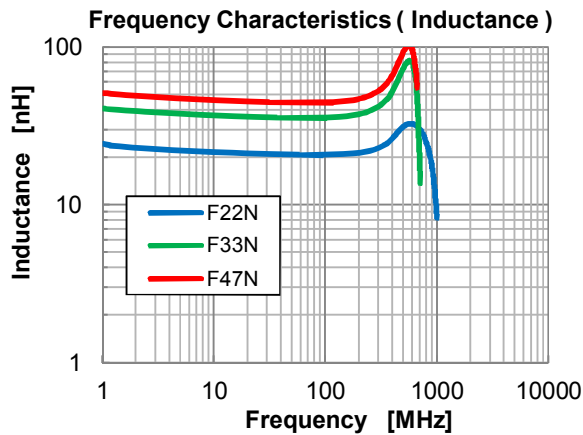
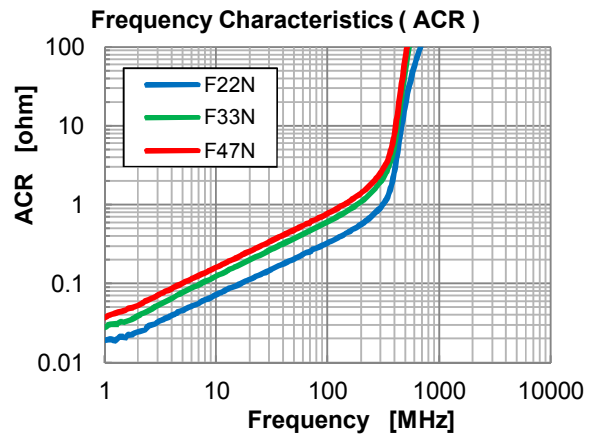
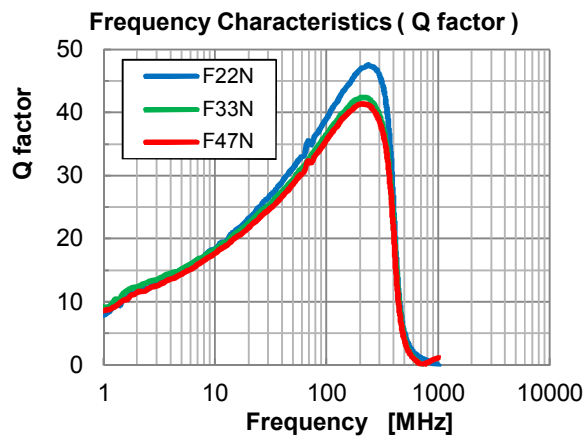
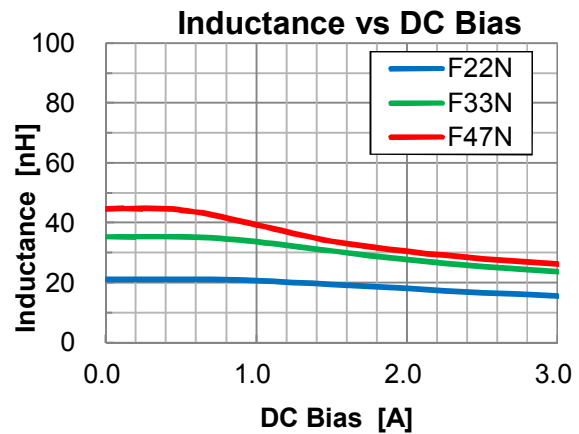
Multilayer Power Inductor

K tolerance

T=0.95 mm Max

MLH2012F

(Very High Freq.)

Frequency Characteristics
(Inductance)Frequency Characteristics
(AC Resistance)Frequency Characteristics
(Q factor)Inductance vs. DC Bias

For High frequency

MLH2012

Multilayer Power Inductor

Packaging & Data for mounting

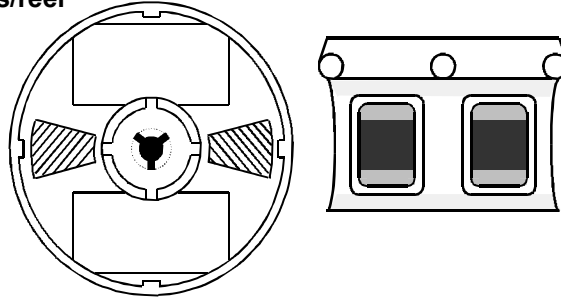
K tolerance

PACKAGING

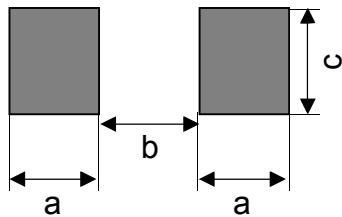
MLH1005 t=0.55 mm Max : 10,000 pcs/reel

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

