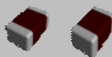
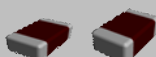
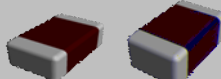


Multilayer Power Inductor

For DCDC Converter

MLP1608 –F Series

Eco
Low
profile

L x W size mm (inch) T size mm Max	1608 mm (0603 inch) 	2012 mm (0805 inch) 	2016 mm (0806 inch) 	2520 mm (1008 inch) 
0.33	MLP1608S-F MLP1608M-F			
0.55		MLP2012S-T		
0.75	MLP1608H-D MLP1608V-D			
0.95	MLP1608H-B MLP1608V-B			
1.00		MLP2012S-M MLP2012H-M MLP2012V-M	MLP2016S-M MLP2016H-M MLP2016V-M	MLP2520S-M MLP2520H-M MLP2520V-M
1.20				MLP2520S-S MLP2520H-S MLP2520V-S

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 DCDC converter

MLP1608-F

Multilayer Power Inductor

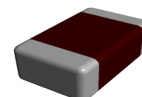
MLP1608-F Series

Features

Multilayer power choke coil. Inductance is 1.0uH.
Small size:0603 inch (1.6x0.8mm, height is 0.33mm Max).
Completely lead-free product and support lead-free solder.

Application

The choke coil of power circuit usage.
Especially, mobile phone, W-LAN module, Camera module .



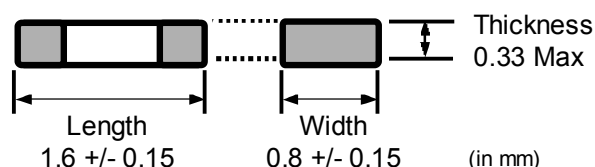
MLP1608S-T Type

Product Identification

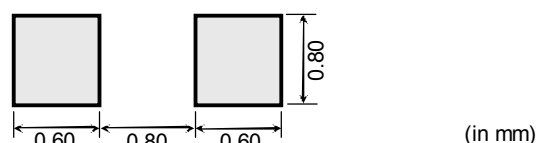
MLP 1608 S 1R0 F T
(1) (2) (3) (4) (5) (6)

- (1) Product ID
- (2) Dimensions
Length:1.6mm, Width:0.8mm
- (3) Series name
S:STD
M:High Frequency
- (4) Inductance (at 2MHz)
1R0 : 1.0uH
- (5) Thickness
F : T=0.33mm Max
- (6) Packaging style (T: Taping)

Dimensions



Recommended pattern



ELECTRICAL CHARACTERISTICS

Thickness [mm]	Feature	Characteristic type	Item	Inductance [uH]	DC Resistance [Ohm]	IDC-1 [mA]	IDC-2 [mA]
						Typ.	Rated Current
0.33 Max	Low Profile	STD	MLP1608S1R0F	1.0 +/- 30%	0.45 +/- 30%	150	500
		High Frequency	MLP1608MR47F	0.47 +/- 30%	0.40 +/- 30%	500	500

IDC-1 : Depend on the Inductance Saturation. (-30% Reduction from Nominal value).

IDC-2 : Depend on the self temperature rise. (40deg.C Max)

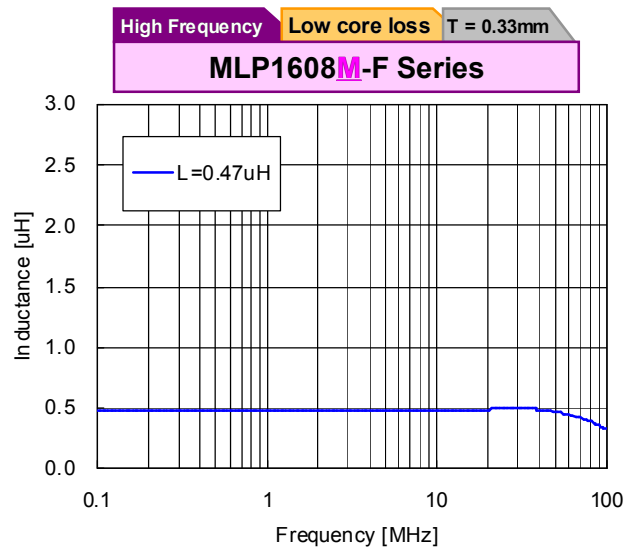
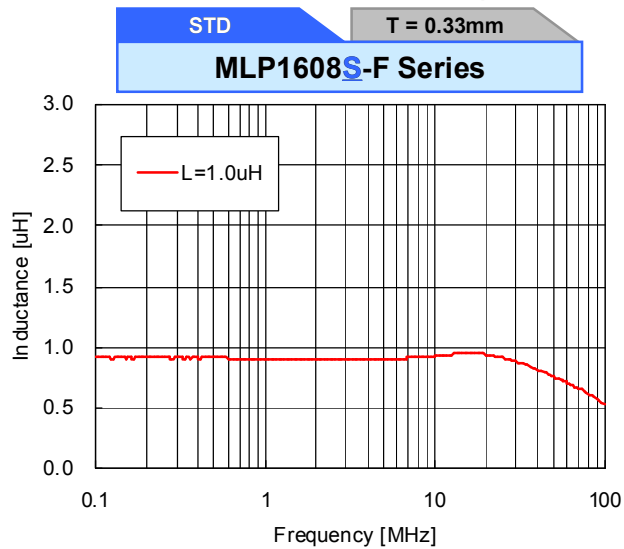
For DCDC converter

MLP1608-F

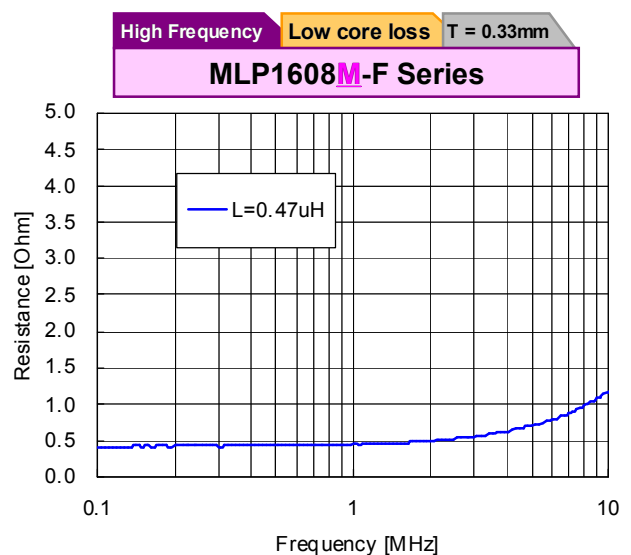
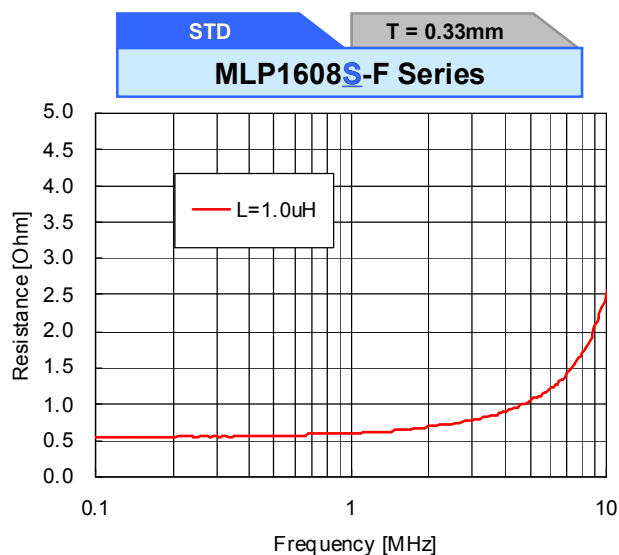
Characteristic data

Multilayer Power Inductor

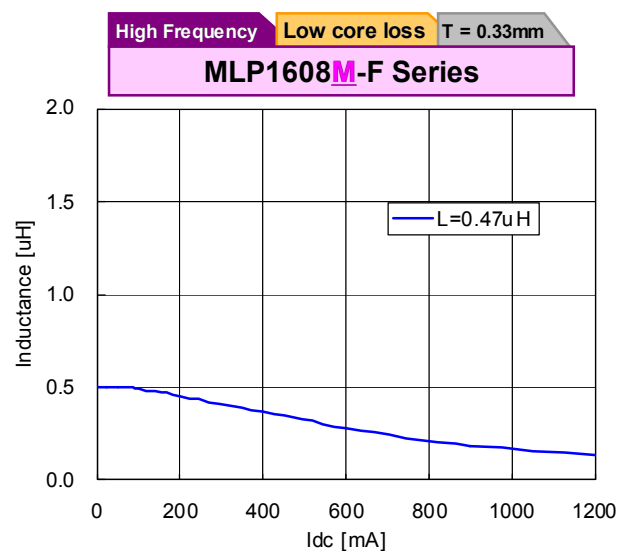
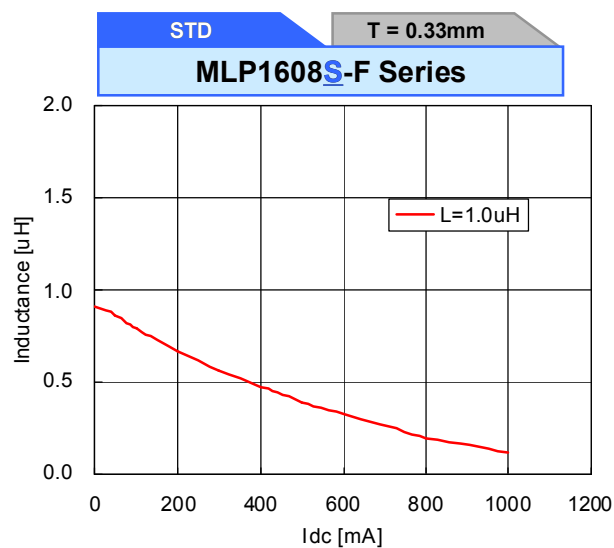
Inductance vs. Frequency



Resistance vs. Frequency



Inductance vs. DC Bias



For DCDC converter

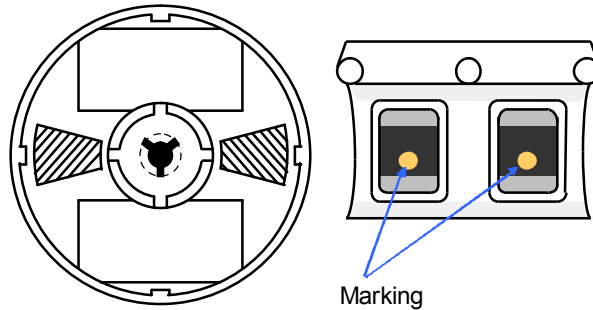
MLP1608-F

Multilayer Power Inductor

Packaging & Data for mounting

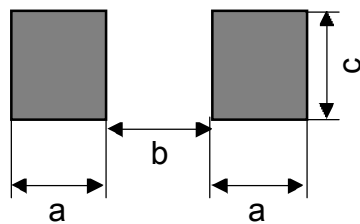
PACKAGING

MLP1608 t=0.33 : 4,000 pcs/reel
MLP1608 t=0.75 : 4,000 pcs/reel
MLP1608 t=0.95 : 4,000 pcs/reel
MLP2012 t=0.55 : 4,000 pcs/reel
MLP2012 t=1.00 : 4,000 pcs/reel
MLP2016 t=1.00 : 3,000 pcs/reel
MLP2520 t=1.00 : 3,000 pcs/reel
MLP2520 t=1.20 : 3,000 pcs/reel



Marking

Recommended Land Pattern



(in mm)

Type	a	b	c
1608	0.6	0.8	0.8
2012	0.8	1.0	1.2
2016	0.8	1.0	1.6
2520	0.7	1.4	2.0

RECOMMENDED SOLDERING CONDITION

