

Inductors for Power Circuits

Multilayer Ferrite



MLP1005	1005 [0402 inch]*
MLP1608	1608 [0603 inch]
MLP2012	2012 [0805 inch]
MLP2016	2016 [0806 inch]
MLP2520	2520 [1008 inch]

* Dimensions Code JIS[EIA]



REMINDERS FOR USING THESE PRODUCTS

Before using these products, be sure to request the delivery specifications.

SAFETY REMINDERS

Please pay sufficient attention to the warnings for safe designing when using these products.

▲ REMINDERS

O The storage period is less than 12 months. Be sure to follow the storage conditions (Temperature: 5 to 40°C, Humidity: 10 to 75% RH or less).

If the storage period elapses, the soldering of the terminal electrodes may deteriorate.

- O Do not use or store in locations where there are conditions such as gas corrosion (salt, acid, alkali, etc.).
- O Before soldering, be sure to preheat components.

The preheating temperature should be set so that the temperature difference between the solder temperature and chip temperature does not exceed 150°C.

- Soldering corrections after mounting should be within the range of the conditions determined in the specifications.
 If overheated, a short circuit, performance deterioration, or lifespan shortening may occur.
- When embedding a printed circuit board where a chip is mounted to a set, be sure that residual stress is not given to the chip due to the overall distortion of the printed circuit board and partial distortion such as at screw tightening portions.
- Self heating (temperature increase) occurs when the power is turned ON, so the tolerance should be sufficient for the set thermal design.
- Carefully lay out the coil for the circuit board design of the non-magnetic shield type.
 A malfunction may occur due to magnetic interference.
- Use a wrist band to discharge static electricity in your body through the grounding wire.
- O Do not expose the products to magnets or magnetic fields.
- O Do not use for a purpose outside of the contents regulated in the delivery specifications.
- The products listed on this catalog are intended for use in general electronic equipment (AV equipment, telecommunications equipment, home appliances, amusement equipment, computer equipment, personal equipment, office equipment, measurement equipment, industrial robots) under a normal operation and use condition.

The products are not designed or warranted to meet the requirements of the applications listed below, whose performance and/or quality require a more stringent level of safety or reliability, or whose failure, malfunction or trouble could cause serious damage to society, person or property.

If you intend to use the products in the applications listed below or if you have special requirements exceeding the range or conditions set forth in the each catalog, please contact us.

- (1) Aerospace/Aviation equipment
- (2) Transportation equipment (cars, electric trains, ships, etc.)
- (3) Medical equipment
- (4) Power-generation control equipment
- (5) Atomic energy-related equipment
- (6) Seabed equipment
- (7) Transportation control equipment

- (8) Public information-processing equipment
- (9) Military equipment
- (10) Electric heating apparatus, burning equipment
- (11) Disaster prevention/crime prevention equipment
- (12) Safety equipment
- (13) Other applications that are not considered general-purpose applications

When designing your equipment even for general-purpose applications, you are kindly requested to take into consideration securing protection circuit/device or providing backup circuits in your equipment.

⊗TDK

Inductors for Power Circuits

Multilayer Ferrite

公TDK

Product compatible with RoHS directive Halogen-free Compatible with lead-free solders

Overview of the MLP Series

FEATURES

○ A low-loss magnetic material is used so that a low-loss inductor for the power supply circuit can be achieved.

- In addition to the inductance value, product types with various features are available so that they can be compatible with different usages.
 - K Type: Products with low DC resistance and large current.
 - H Type: This product uses a low-loss material and has low DC resistance.
 - * Optimal for when heavy load power efficiency is important.
 - V Type: As with the H type, this product with a low-loss magnetic material and that has good DC superimposition type characteristics. * Optimal for when light load power efficiency is important.
 - S Type: STD product lineup that includes a wide L value and various sizes.

M Type: Product supporting high frequency applications, suitable for high-speed drive power circuits.

Smart phones, tablet terminals, digital cameras, video cameras, HDDs, power supply modules, etc.

PART NUMBER CONSTRUCTION

MLF	C	-	1608		V		17		В		Т	
Series na	mo	L×W	Dimensions		haracteristic type	Induct	tance	Н	eight	Pac	kaging style	Internal code
Jenes na	anne		(mm)	Ŭ	maraoteristic type	(µl	H)	(mn	n max.)	Tac	Raging style	Internal code
	_	1005	1.0×0.5	к	Large current, low resistance	1R0	1.0	Т	0.55	т	Taping	
		1608	1.6×0.8	- н	Low core loss (Emphasized DC	100	10	D	0.75	_		
		2012	2.0×1.25		resistance)	S1R0S	1.2	В	0.95	_		
		2016	2.0×1.6	- V	Low core loss (Emphasized DC	S2R2S	2.5	Μ	1.0	_		
					bias characteristics)			S	1.2	_		
				S	STD product							
				М	High frequency							

OPERATING TEMPERATURE RANGE, PACKAGE QUANTITY, PRODUCT WEIGHT

Туре		Temperat	ure range		
		Operating	Storage	Package quantity	Individual weight
		temperature*	temperature**		
		(°C)	(°C)	(pieces/reel)	(mg)
MLP1005	t=0.75	-40 to +125	-40 to +85	8,000	1.8
MLP1608	t=0.75	-40 to +125	-40 to +85	4,000	4
MLP 1000	t=0.95	-40 10 +125			5.5
MLP2012	t=0.55	-40 to +125	-40 to +85	4.000	7
MLF 2012	t=1.0	-40 10 + 123	-40 10 +03	4,000	10
MLP2016		-40 to +125	-40 to +85	3,000	12
MLP2520	t=1.0	-40 to +125	-40 to +85	3,000	15
WILF2520	t=1.2	-40 10 +125	-40 10 +65	3,000	25

* Operating temperature range includes self-temperature rise.

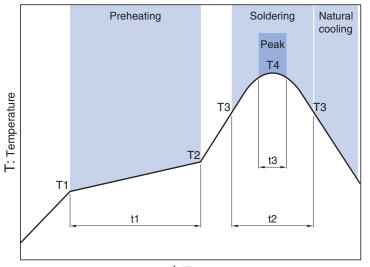
** The Storage temperature range is for after the circuit board is mounted.

RoHS Directive Compliant Product: See the following for more details related to RoHS Directive compliant products. http://www.tdk.co.jp/rohs/
 Halogen-free: Indicates that Cl content is less than 900ppm, Br content is less than 900ppm, and that the total Cl and Br content is less than 1500ppm.

INDUCTORS

Overview of the MLP Series

RECOMMENDED REFLOW PROFILE



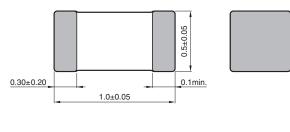
t: Time

Preheating	g		Soldering	J	Peak	
Temp.		Time	Temp.	Time	Temp.	Time
T1	T2	t1	Т3	t2	T4	t3
150°C	180°C	60 to 120s	230°C	30 to 60s	250 to 260°C	10s max.

INDUCTORS

MLPseries MLP1005 Type

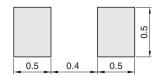
SHAPE & DIMENSIONS





Dimensions in mm

RECOMMENDED LAND PATTERN



Dimensions in mm



MLPseries MLP1005 Type

ELECTRICAL CHARACTERISTICS

CHARACTERISTICS SPECIFICATION TABLE

Туре	Thickness T (mm)	L		Measuring frequency	DC resistance (Ω)±30%	Rated current* (mA)	Part No.**
	max.	(µH)	tolerance	(MHz)	(S2)±30 /8	max.	
High frequency	0.75	1.0	±20%	10	0.53	500	MLP1005M1R0DT

* Rated current: Current assumed when temperature has risen to 40°C max.

**
 The specify internal code.

○ Measurement equipment

Measurement item	Product No.	Manufacturer
L	4294A+16034G	Agilent Technologies
DC resistance	Type-7561	Yokogawa

* Equivalent measurement equipment may be used.

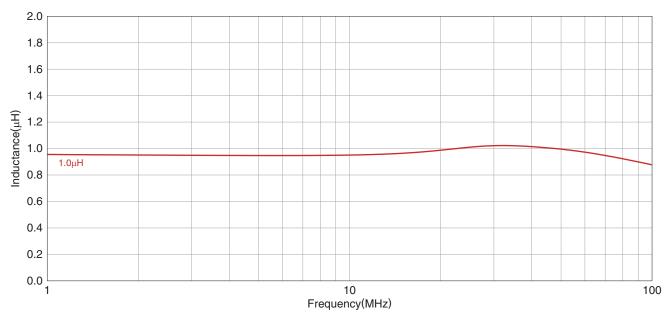
⊗TDK

INDUCTORS

MLPseries MLP1005Type (M characteristic product, T dimension of the product 0.75mm max.)

ELECTRICAL CHARACTERISTICS

L FREQUENCY CHARACTERISTICS GRAPH



O Measurement equipment	
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Product No.	Manufacturer		
4294A+16034G	Agilent Technologies		
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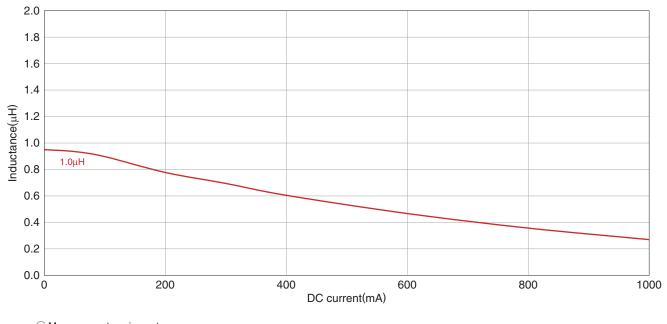
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INDUCTORS

MLPseries MLP1005 Type (M characteristic product, T dimension of the product 0.75mm max.)

ELECTRICAL CHARACTERISTICS

□ INDUCTANCE VS. DC BIAS CHARACTERISTICS GRAPH



O Measurement equipment

Product No.

4285A+42841A+42842C+42851-61100 Agilent Technologies

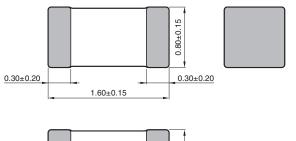
Manufacturer

001-01 / 20130731 / inductor_commercial_power_mlp_en.

INDUCTOR S

MLPseries MLP1608 Type

SHAPE & DIMENSIONS

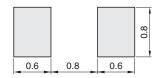






Dimensions in mm

RECOMMENDED LAND PATTERN



Dimensions in mm

MLPseries MLP1608 Type

ELECTRICAL CHARACTERISTICS

CHARACTERISTICS SPECIFICATION TABLE

Туре		Thickness T (mm)	L		Measuring frequency	DC resistance (Ω)±30%	Rated current* (mA)	Part No.**
		max.	(µH)	tolerance	(MHz)	(S2)±30 /8	max.	
	Low resistance	0.95	2.2	±20%	2	0.30	750	MLP1608H2R2BT
Low core loss	Emphasized	0.75	0.47	±20%	2	0.22	800	MLP1608VR47DT
		0.75	1.0	±20%	2	0.30	700	MLP1608V1R0DT
	DC bias	0.95	0.47	±20%	2	0.20	800	MLP1608VR47BT
	characteristics	0.95	1.0	±20%	2	0.30	700	MLP1608V1R0BT
		0.95	2.2	±20%	2	0.36	600	MLP1608V2R2BT

* Rated current: Current assumed when temperature has risen to 40°C max.

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○ Measurement equipment

Measurement item	Product No.	Manufacturer
L	4294A+16034G	Agilent Technologies
DC resistance	Type-7561	Yokogawa

* Equivalent measurement equipment may be used.

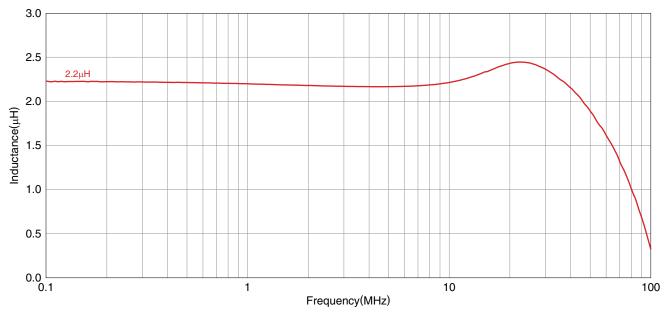
⊗TDK

INDUCTORS

MLPseries MLP1608Type (H characteristic product, T dimension of the product 0.95mm max.)

ELECTRICAL CHARACTERISTICS

L FREQUENCY CHARACTERISTICS GRAPH



 Measurement equipment 	
Product No.	Manufacturer
4294A+16034G	Agilent Technologies

* Equivalent measurement equipment may be used.

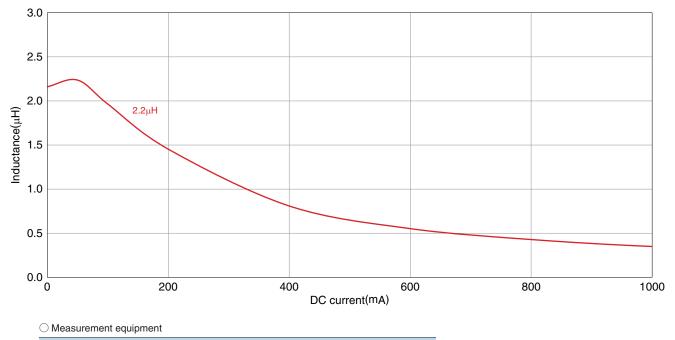
*****<u>⊗</u>TDK*

INDUCTORS

MLPseries MLP1608 Type (H characteristic product, T dimension of the product 0.95mm max.)

ELECTRICAL CHARACTERISTICS

□ INDUCTANCE VS. DC BIAS CHARACTERISTICS GRAPH



Product No. Manufacturer

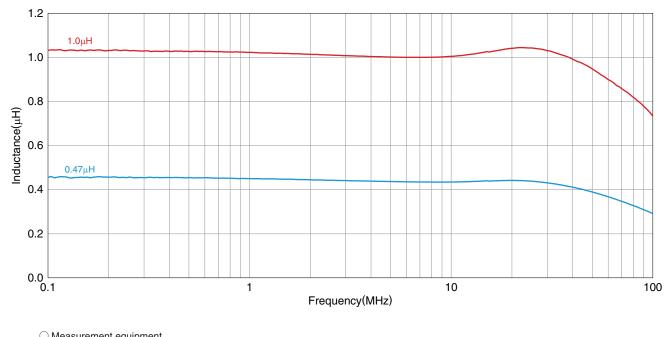
4285A+42841A+42842C+42851-61100 Agilent Technologies

INDUCTORS

MLPseries MLP1608 Type (V characteristic product, T dimension of the product 0.75mm max.)

ELECTRICAL CHARACTERISTICS

L FREQUENCY CHARACTERISTICS GRAPH



Product No.	Manufacturer		
4294A+16034G	Agilent Technologies		
* Equivalent measurement equipment may be used.			

• All specifications are subject to change without notice.

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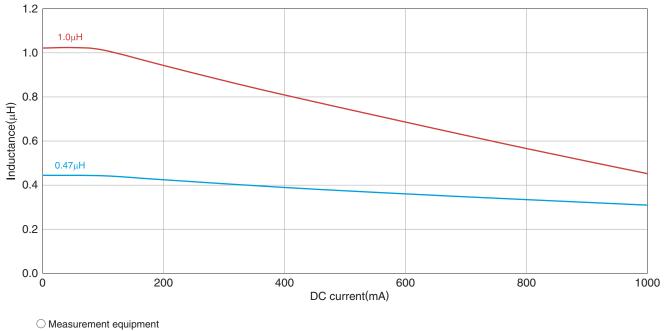
*****<u>⊗</u>TDK*

INDUCTORS

MLPseries MLP1608 Type (V characteristic product, T dimension of the product 0.75mm max.)

ELECTRICAL CHARACTERISTICS

□ INDUCTANCE VS. DC BIAS CHARACTERISTICS GRAPH



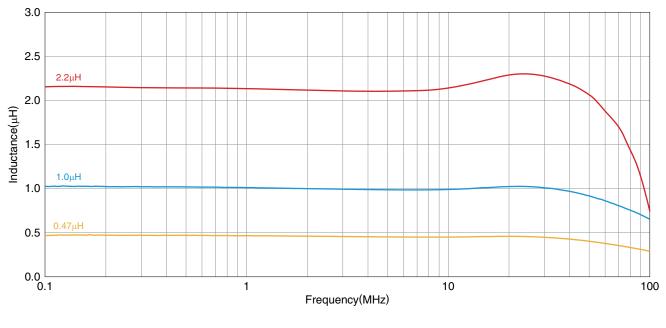
Product No. Manufacturer 4285A+42841A+42842C+42851-61100 Agilent Technologies

INDUCTORS

MLPseries MLP1608 Type (V characteristic product, T dimension of the product 0.95mm max.)

ELECTRICAL CHARACTERISTICS

L FREQUENCY CHARACTERISTICS GRAPH



○ Measurement equipment					
Product No.	Manufacturer				
4294A+16034G Agilent Technologies					
* Equivalent measurement equipment may be used.					

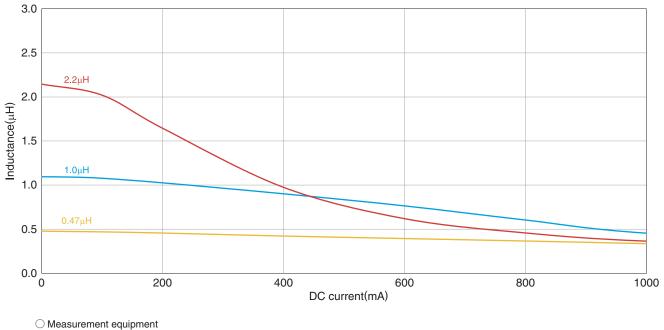
*****<u>⊗</u>TDK*

Ν D U 0 R S С Т

MLPseries MLP1608 Type (V characteristic product, T dimension of the product 0.95mm max.)

ELECTRICAL CHARACTERISTICS

INDUCTANCE VS. DC BIAS CHARACTERISTICS GRAPH



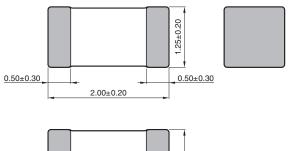
Product No.

Manufacturer 4285A+42841A+42842C+42851-61100 Agilent Technologies

INDUCTORS

MLPseries MLP2012 Type

SHAPE & DIMENSIONS

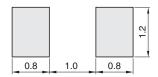




T 0.50±0.05 0.85±0.15

Dimensions in mm

RECOMMENDED LAND PATTERN



Dimensions in mm



MLPseries MLP2012Type

ELECTRICAL CHARACTERISTICS

CHARACTERISTICS SPECIFICATION TABLE

Туре		Thickness T (mm)	L		Measuring frequency	DC resistance (Ω)±30%	Rated current* (mA)	Part No.**
		max.	(µH)	tolerance	(MHz)	(22)±0070	max.	
		1.0	0.47	±20%	2	0.07	1300	MLP2012HR47MT
		1.0	0.54	±20%	2	0.065	1300	MLP2012HR54MT
	Low resistance	1.0	1.0	±20%	2	0.12	1100	MLP2012H1R0MT
		1.0	1.5	±20%	2	0.12	1100	MLP2012H1R5MT
		1.0	2.2	±20%	2	0.15	1000	MLP2012H2R2MT
Low core loss		0.55	1.0	±20%	2	0.26	700	MLP2012V1R0TT
		1.0	0.47	±20%	2	0.11	1100	MLP2012VR47MT
	Emphasized DC bias characteristics	1.0	1.0	±20%	2	0.20	900	MLP2012V1R0MT
		1.0	1.5	±20%	2	0.23	800	MLP2012V1R5MT
		1.0	2.2	±20%	2	0.28	700	MLP2012V2R2MT
		1.0	4.7	±20%	2	0.40	600	MLP2012V4R7MT
		0.55	0.47	±20%	2	0.13	1200	MLP2012SR47TT
		0.55	0.82	±20%	2	0.13	1200	MLP2012SR82TT
		0.55	1.0	±20%	2	0.23	800	MLP2012S1R0TT
		0.55	1.5	±20%	2	0.27	700	MLP2012S1R5TT
		0.55	2.2	±20%	2	0.33	600	MLP2012S2R2TT
STD product		1.0	0.47	±20%	2	0.09	1200	MLP2012SR47MT
		1.0	1.0	±20%	2	0.16	1000	MLP2012S1R0MT
		1.0	1.5	±20%	2	0.16	1000	MLP2012S1R5MT
		1.0	2.2	±20%	2	0.23	800	MLP2012S2R2MT
		1.0	3.3	±20%	2	0.19	900	MLP2012S3R3MT
		1.0	4.7	±20%	2	0.26	700	MLP2012S4R7MT

 * Rated current: Current assumed when temperature has risen to 40°C max.

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$\bigcirc \underline{\text{Measurement equipment}}$

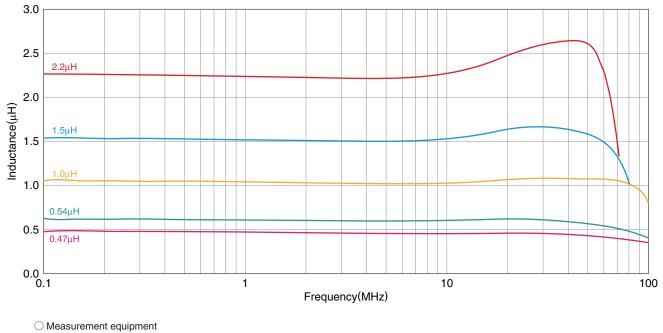
Measurement item	Product No.	Manufacturer
L	4294A+16034G	Agilent Technologies
DC resistance	Type-7561	Yokogawa

INDUCTORS

MLPseries MLP2012 Type (H characteristic product, T dimension of the product 1.0mm max.)

ELECTRICAL CHARACTERISTICS

L FREQUENCY CHARACTERISTICS GRAPH



Product No.	Manufacturer			
4294A+16034G	Agilent Technologies			
* Equivalent measurement equipment may be used.				

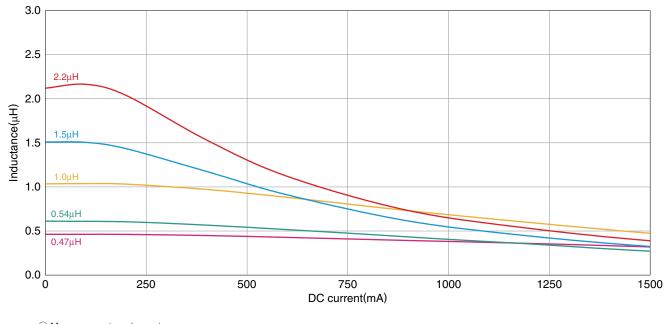
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INDUCTORS

MLPseries MLP2012 Type (H characteristic product, T dimension of the product 1.0mm max.)

ELECTRICAL CHARACTERISTICS

□ INDUCTANCE VS. DC BIAS CHARACTERISTICS GRAPH



 \bigcirc Measurement equipment

Product No.

4285A+42841A+42842C+42851-61100 Agilent Technologies

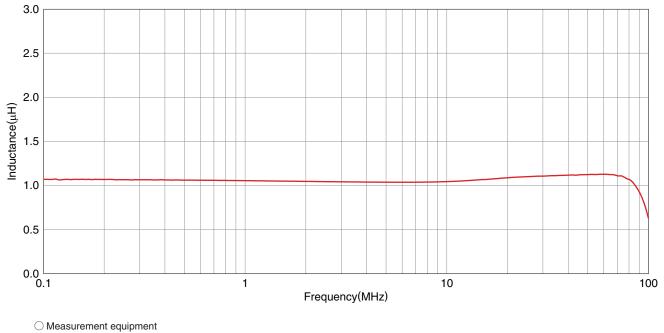
Manufacturer

INDUCTORS

MLPseries MLP2012 Type (V characteristic product, T dimension of the product 0.55mm max.)

ELECTRICAL CHARACTERISTICS

L FREQUENCY CHARACTERISTICS GRAPH



Product No.	Manufacturer			
4294A+16034G	Agilent Technologies			
* Equivalent measurement equipment may be used.				

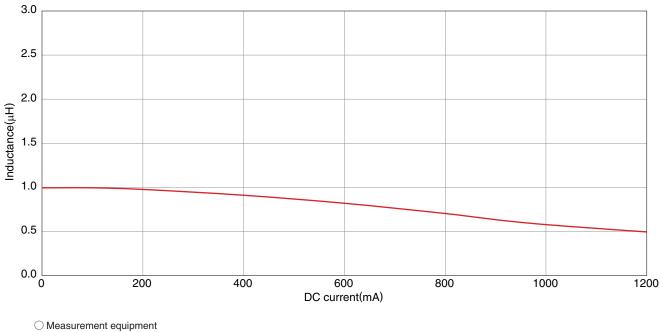
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Ν D U 0 R S I С Т

MLPseries MLP2012 Type (V characteristic product, T dimension of the product 0.55mm max.)

ELECTRICAL CHARACTERISTICS

INDUCTANCE VS. DC BIAS CHARACTERISTICS GRAPH



Product No. Manufacturer 4285A+42841A+42842C+42851-61100

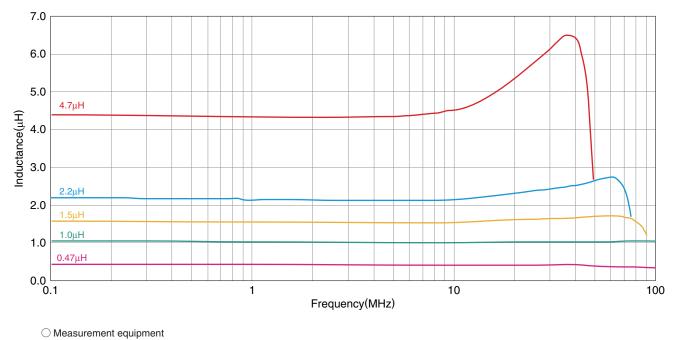
Agilent Technologies

INDUCTORS

MLPseries MLP2012 Type (V characteristic product, T dimension of the product 1.0mm max.)

ELECTRICAL CHARACTERISTICS

L FREQUENCY CHARACTERISTICS GRAPH



Product No.	Manufacturer			
4294A+16034G	Agilent Technologies			
* Equivalent measurement equipment may be used.				

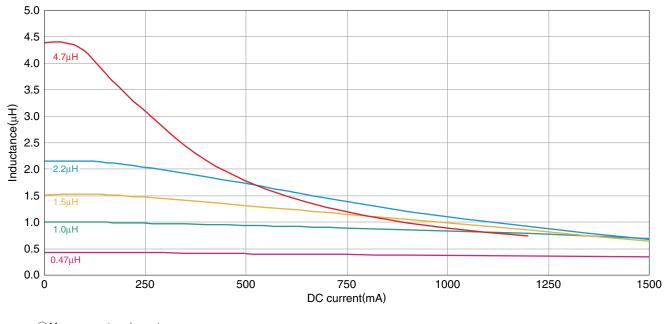
*****<u>⊗</u>TDK*

INDUCTORS

MLPseries MLP2012 Type (V characteristic product, T dimension of the product 1.0mm max.)

ELECTRICAL CHARACTERISTICS

□ INDUCTANCE VS. DC BIAS CHARACTERISTICS GRAPH



 \bigcirc Measurement equipment

Product No.

4285A+42841A+42842C+42851-61100 Agilent Technologies

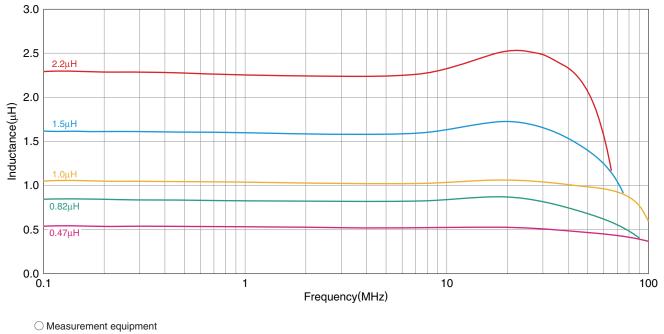
Manufacturer

INDUCTORS

MLPseries MLP2012 Type (S characteristic product, T dimension of the product 0.55mm max.)

ELECTRICAL CHARACTERISTICS

L FREQUENCY CHARACTERISTICS GRAPH



Product No.	Manufacturer			
4294A+16034G	Agilent Technologies			
* Equivalent measurement equipment may be used.				

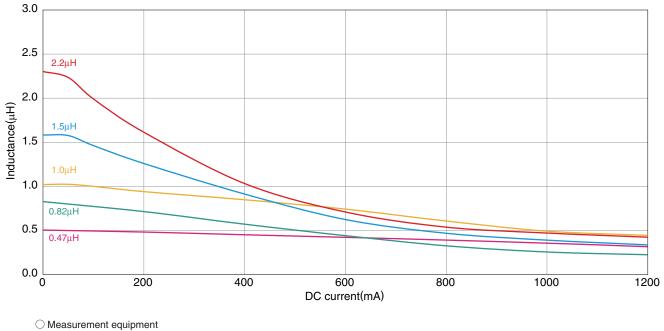
公TDK

Ν D U 0 R S С Т

MLPseries MLP2012 Type (S characteristic product, T dimension of the product 0.55mm max.)

ELECTRICAL CHARACTERISTICS

INDUCTANCE VS. DC BIAS CHARACTERISTICS GRAPH



Product No. Manufacturer 4285A+42841A+42842C+42851-61100

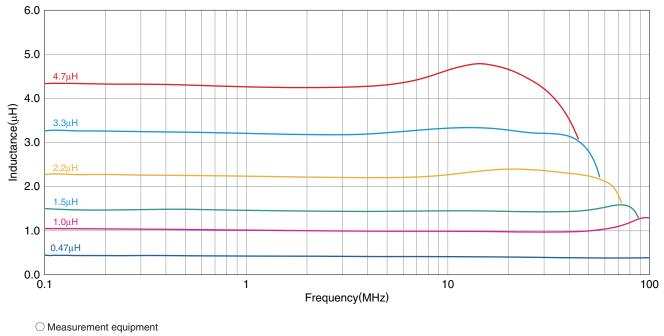
Agilent Technologies

INDUCTORS

MLPseries MLP2012 Type (S characteristic product, T dimension of the product 1.0mm max.)

ELECTRICAL CHARACTERISTICS

L FREQUENCY CHARACTERISTICS GRAPH



Product No.	Manufacturer			
4294A+16034G	Agilent Technologies			
* Equivalent measurement equipment may be used.				

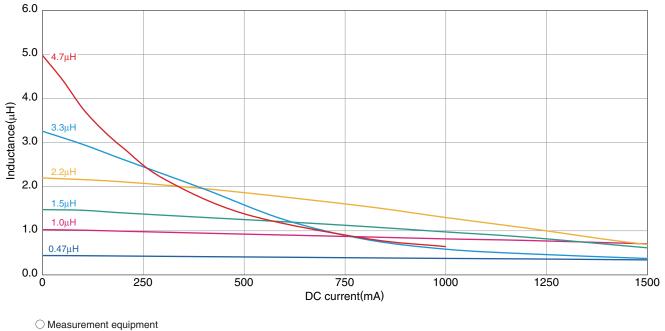
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Ν D U 0 R S С Т

MLPseries MLP2012 Type (S characteristic product, T dimension of the product 1.0mm max.)

ELECTRICAL CHARACTERISTICS

INDUCTANCE VS. DC BIAS CHARACTERISTICS GRAPH



Product No. Manufacturer 4285A+42841A+42842C+42851-61100 Agilent Technologies

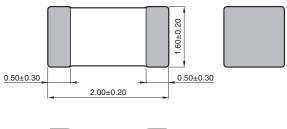
INDUCTORS

MLPseries MLP2016 Type



公TDK

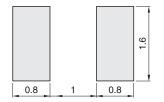
SHAPE & DIMENSIONS





Dimensions in mm

RECOMMENDED LAND PATTERN



Dimensions in mm

MLPseries MLP2016 Type

ELECTRICAL CHARACTERISTICS

CHARACTERISTICS SPECIFICATION TABLE

Туре		Thickness T (mm)	L		Measuring frequency	DC resistance (Ω)	Rated current* (mA)	Part No.**
		max.	(µH)	tolerance	(MHz)	(22)	max.	
		1.0	0.47	±20%	2	0.055±25%	1700	MLP2016HR47MT
		1.0	1.0	±20%	2	0.09±25%	1300	MLP2016H1R0MT
	Low resistance	1.0	1.5	±20%	2	0.11±25%	1200	MLP2016H1R5MT
	Low resistance	1.0	2.2	±20%	2	0.11±25%	1200	MLP2016H2R2MT
Low core loss Emphasize DC bias characteris		1.0	3.3	±20%	2	0.12±25%	1200	MLP2016H3R3MT
		1.0	4.7	±20%	2	0.16±25%	1100	MLP2016H4R7MT
		1.0	0.47	±20%	2	0.07±25%	1500	MLP2016VR47MT
		1.0	1.0	±20%	2	0.12±25%	1200	MLP2016V1R0MT
		1.0	1.5	±20%	2	0.14±25%	1150	MLP2016V1R5MT
	Characteristics	1.0	2.2	±20%	2	0.17±25%	1000	MLP2016V2R2MT
		1.0	0.47	±20%	2	0.05±30%	1600	MLP2016SR47MT
STD product		1.0	1.0	±20%	2	0.09±30%	1400	MLP2016S1R0MT
		1.0	1.5	±20%	2	0.09±30%	1200	MLP2016S1R5MT
		1.0	2.2	±20%	2	0.11±30%	1200	MLP2016S2R2MT
		1.0	4.7	±20%	2	0.27±30%	800	MLP2016S4R7MT

 * Rated current: Current assumed when temperature has risen to 40°C max.

O Measurement equipment

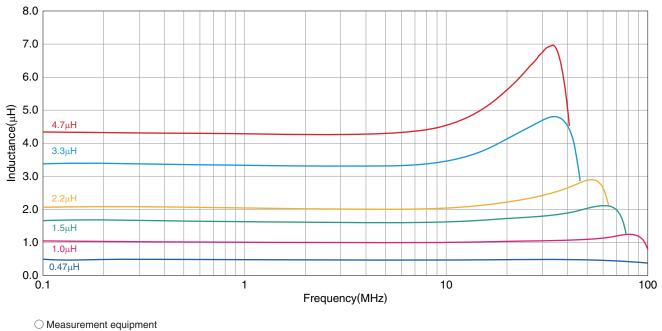
Measurement item	Product No.	Manufacturer
L	4294A+16034G	Agilent Technologies
DC resistance	Type-7561	Yokogawa

INDUCTORS

MLPseries MLP2016 Type (H characteristic product, T dimension of the product 1.0mm max.)

ELECTRICAL CHARACTERISTICS

L FREQUENCY CHARACTERISTICS GRAPH



Product No.

4294A+16034G

* Equivalent measurement equipment may be used.

Manufacturer

Agilent Technologies

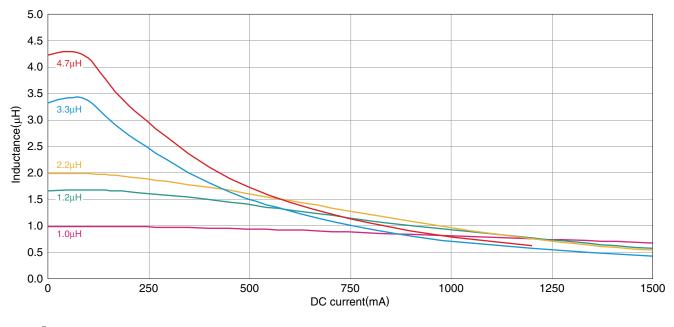
*****<u>⊗</u>TDK*

INDUCTORS

MLPseries MLP2016 Type (H characteristic product, T dimension of the product 1.0mm max.)

ELECTRICAL CHARACTERISTICS

□INDUCTANCE VS. DC BIAS CHARACTERISTICS GRAPH (EXAMPLE)



○ Measurement equipment

Product No.

4285A+42841A+42842C+42851-61100 Agilent Technologies

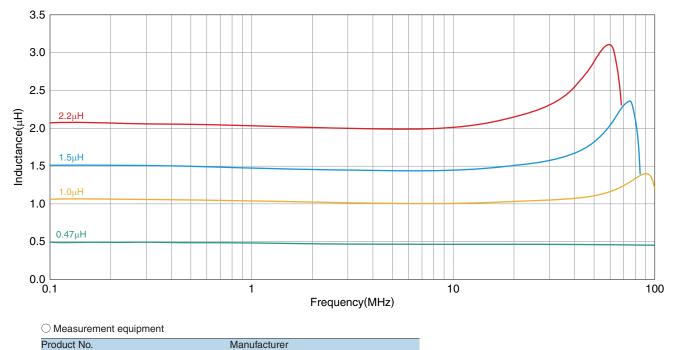
Manufacturer

INDUCTORS

MLPseries MLP2016 Type (V characteristic product, T dimension of the product 1.0mm max.)

ELECTRICAL CHARACTERISTICS

L FREQUENCY CHARACTERISTICS GRAPH



4294A+16034G Agilent Technologies

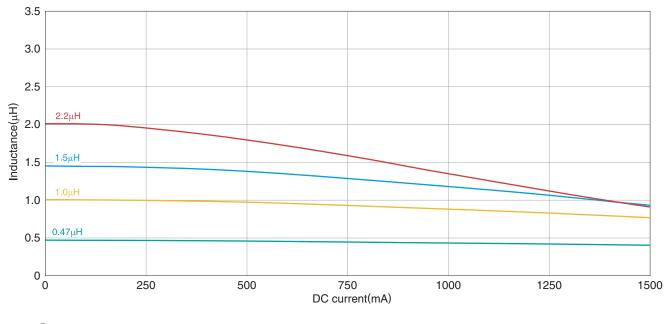
*****<u>⊗</u>TDK*

INDUCTORS

MLPseries MLP2016 Type (V characteristic product, T dimension of the product 1.0mm max.)

ELECTRICAL CHARACTERISTICS

□ INDUCTANCE VS. DC BIAS CHARACTERISTICS GRAPH



○ Measurement equipment

Product No.

4285A+42841A+42842C+42851-61100 Agilent Technologies

Manufacturer

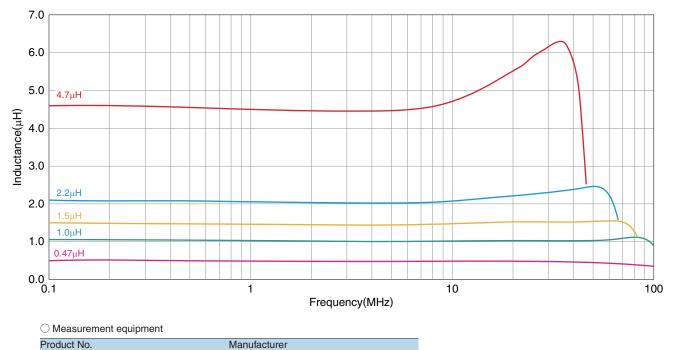
* Equivalent measurement equipment may be used.

I Ν D U С 0 R S Т

MLPseries MLP2016 Type (S characteristic product, T dimension of the product 1.0mm max.)

ELECTRICAL CHARACTERISTICS

L FREQUENCY CHARACTERISTICS GRAPH



4294A+16034G

Agilent Technologies * Equivalent measurement equipment may be used.

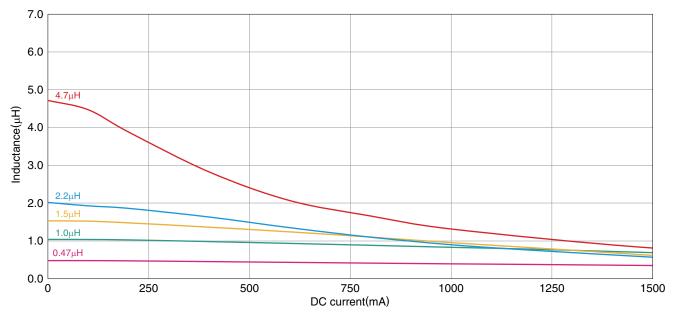
公TDK

Ν D U 0 R S I С Т

MLPseries MLP2016 Type (S characteristic product, T dimension of the product 1.0mm max.)

ELECTRICAL CHARACTERISTICS

INDUCTANCE VS. DC BIAS CHARACTERISTICS GRAPH



O Measurement equipment

Product No.

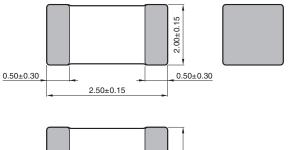
Manufacturer 4285A+42841A+42842C+42851-61100 Agilent Technologies

MLPseries MLP2520 Type



公TDK

SHAPE & DIMENSIONS

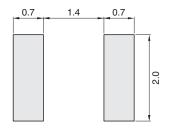




T 0.85±0.15 1.10±0.10

Dimensions in mm

RECOMMENDED LAND PATTERN



Dimensions in mm

MLPseries MLP2520 Type

ELECTRICAL CHARACTERISTICS

CHARACTERISTICS SPECIFICATION TABLE

Туре		Thickness T (mm) max.	L (µH) tolerance		Measuring frequency (MHz)	DC resistance (Ω)±30%	Rated current* (mA) max.	Part No.**
				tolerance				
Large current	Low resistance	1.0	1.0	±20%	2	0.048	2300	MLP2520K1R0MT
	LOW TESISIANCE	1.2	1.0	±20%	2	0.048	2300	MLP2520K1R0ST
		1.0	0.47	±20%	2	0.044	2100	MLP2520HR47MT
		1.0	1.0	±20%	2	0.075	1500	MLP2520H1R0MT
		1.0	2.2	±20%	2	0.09	1300	MLP2520H2R2MT
	Emphasized	1.0	3.3	±20%	2	0.13	1000	MLP2520H3R3MT
	low resistance	1.0	4.7	±20%	2	0.13	1000	MLP2520H4R7MT
		1.2	1.0	±20%	2	0.07	1600	MLP2520H1R0ST
		1.2	2.2	±20%	2	0.08	1500	MLP2520H2R2ST
		1.2	4.7	±20%	2	0.13	1000	MLP2520H4R7ST
	Emphasized DC bias characteristics	1.0	0.47	±20%	2	0.06	1700	MLP2520VR47MT
Low core loss		1.0	1.0	±20%	2	0.10	1300	MLP2520V1R0MT
		1.0	1.5	±20%	2	0.10	1400	MLP2520V1R5MT
		1.0	2.2	±20%	2	0.12	1100	MLP2520V2R2MT
		1.0	3.3	±20%	2	0.20	900	MLP2520V3R3MT
		1.0	4.7	±20%	2	0.24	800	MLP2520V4R7MT
		1.2	1.0	±20%	2	0.10	1300	MLP2520V1R0ST
		1.2	1.5	±20%	2	0.10	1400	MLP2520V1R5ST
		1.2	2.2	±20%	2	0.12	1100	MLP2520V2R2ST
		1.2	4.7	±20%	2	0.22	800	MLP2520V4R7ST
STD product		1.0	1.0	±20%	2	0.085	1500	MLP2520S1R0MT
		1.0	1.5	±20%	2	0.09	1200	MLP2520S1R5MT
		1.0	2.2	±20%	2	0.09	1200	MLP2520S2R2MT
		1.0	3.3	±20%	2	0.13	1000	MLP2520S3R3MT
		1.0	4.7	±20%	2	0.13	1000	MLP2520S4R7MT
		1.0	10.0	±20%	2	0.28	700	MLP2520S100MT
		1.2	1.2	±20%	2	0.08	1500	MLP2520S1R0ST
		1.2	2.5	±20%	2	0.11	1200	MLP2520S2R2ST
		1.2	3.3	±20%	2	0.11	1000	MLP2520S3R3ST
		1.2	4.7	±20%	2	0.11	1000	MLP2520S4R7ST
		1.2	10.0	±20%	2	0.28	700	MLP2520S100ST

 * Rated current: Current assumed when temperature has risen to 40°C max.

○ Measurement equipment

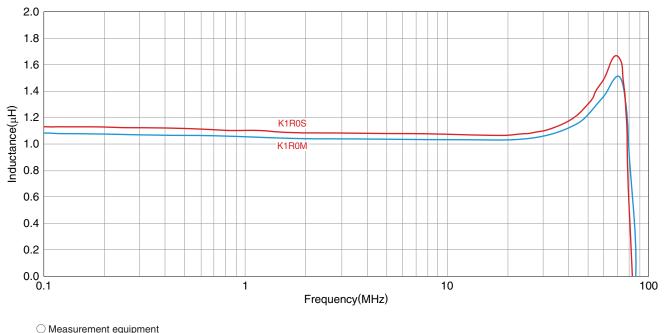
Measurement item	Product No.	Manufacturer
L	4294A+16034G	Agilent Technologies
DC resistance	Type-7561	Yokogawa

MLPseries MLP2520 Type (K characteristic product)

ELECTRICAL CHARACTERISTICS

I

L FREQUENCY CHARACTERISTICS GRAPH



Product No.	Manufacturer			
4294A+16034G	Agilent Technologies			
* Equivalent measurement equipment may be used.				

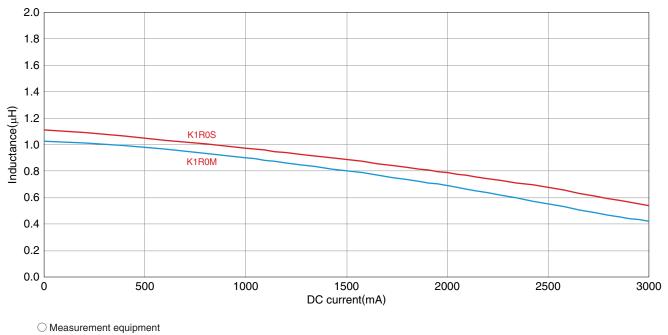
⊗TDK

(39/53)

MLPseries MLP2520 Type (K characteristic product)

ELECTRICAL CHARACTERISTICS

INDUCTANCE VS. DC BIAS CHARACTERISTICS GRAPH



Product No. Manufacturer 4285A+42841A+42842C+42851-61100 Agilent Technologies

* Equivalent measurement equipment may be used.

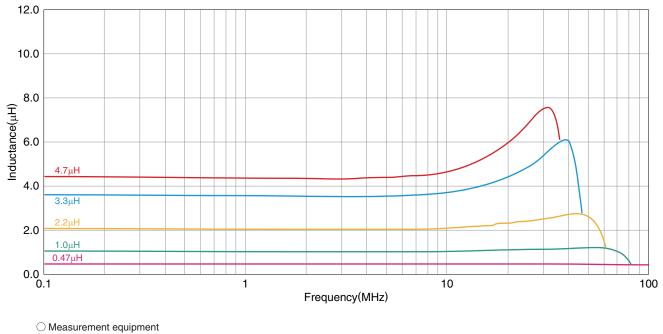
公TDK

INDUCTORS

MLPseries MLP2520 Type (H characteristic product, T dimension of the product 1.0mm max.)

ELECTRICAL CHARACTERISTICS

L FREQUENCY CHARACTERISTICS GRAPH



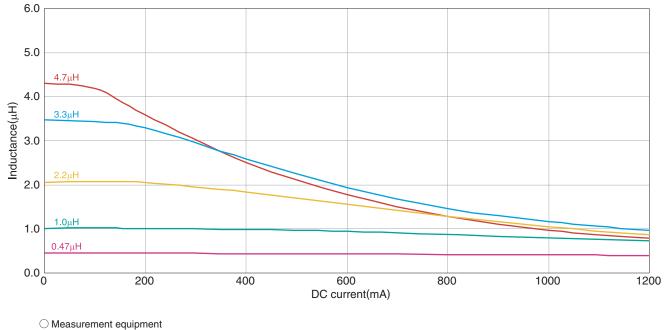
Product No.	Manufacturer		
4294A+16034G	Agilent Technologies		
* Equivalent measurement equipment may be used.			

Ν D U 0 R S I С Т

MLPseries MLP2520 Type (H characteristic product, T dimension of the product 1.0mm max.)

ELECTRICAL CHARACTERISTICS

INDUCTANCE VS. DC BIAS CHARACTERISTICS GRAPH



Product No.

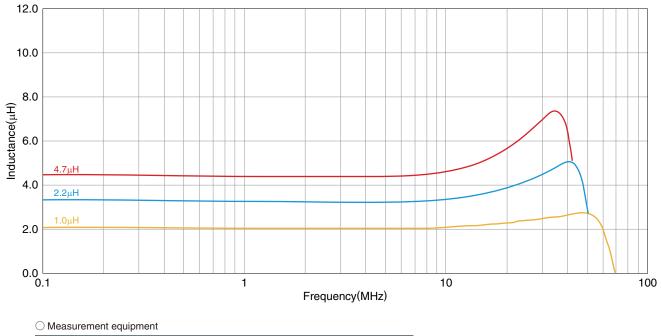
Manufacturer 4285A+42841A+42842C+42851-61100 Agilent Technologies

INDUCTORS

MLPseries MLP2520 Type (H characteristic product, T dimension of the product 1.2mm max.)

ELECTRICAL CHARACTERISTICS

L FREQUENCY CHARACTERISTICS GRAPH



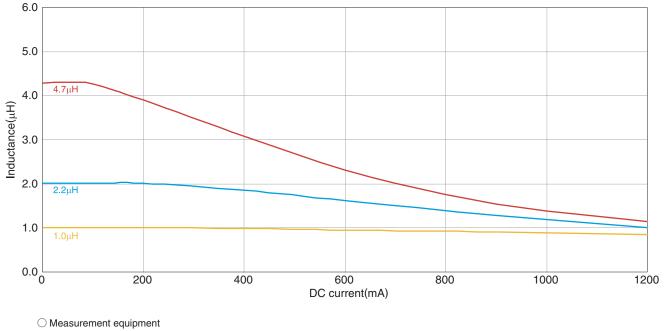
Product No.	Manufacturer		
4294A+16034G	Agilent Technologies		
* Equivalent measurement equipment may be used.			

INDUCTORS

MLPseries MLP2520 Type (H characteristic product, T dimension of the product 1.2mm max.)

ELECTRICAL CHARACTERISTICS

□ INDUCTANCE VS. DC BIAS CHARACTERISTICS GRAPH



Product No.Manufacturer4285A+42841A+42842C+42851-61100Agilent Technologies

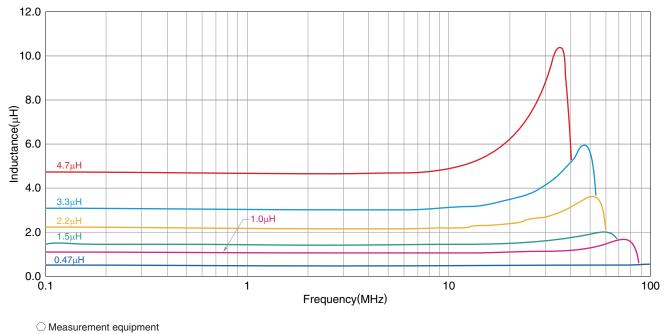
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• All specifications are subject to change without notice.
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INDUCTORS

MLPseries MLP2520 Type (V characteristic product, T dimension of the product 1.0mm max.)

ELECTRICAL CHARACTERISTICS

L FREQUENCY CHARACTERISTICS GRAPH



Product No.

4294A+16034G

* Equivalent measurement equipment may be used.

Manufacturer

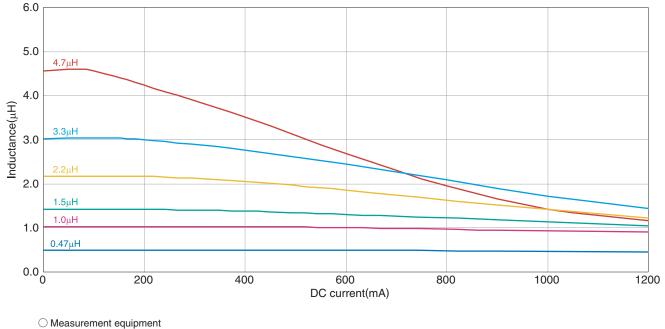
Agilent Technologies

Ν D U С 0 R S Т

MLPseries MLP2520 Type (V characteristic product, T dimension of the product 1.0mm max.)

ELECTRICAL CHARACTERISTICS

INDUCTANCE VS. DC BIAS CHARACTERISTICS GRAPH



Product No. Manufacturer 4285A+42841A+42842C+42851-61100 Agilent Technologies

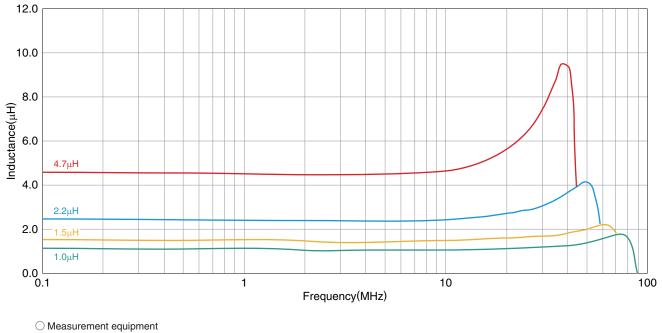
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• All specifications are subject to change without notice.
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INDUCTORS

MLPseries MLP2520 Type (V characteristic product, T dimension of the product 1.2mm max.)

ELECTRICAL CHARACTERISTICS

L FREQUENCY CHARACTERISTICS GRAPH



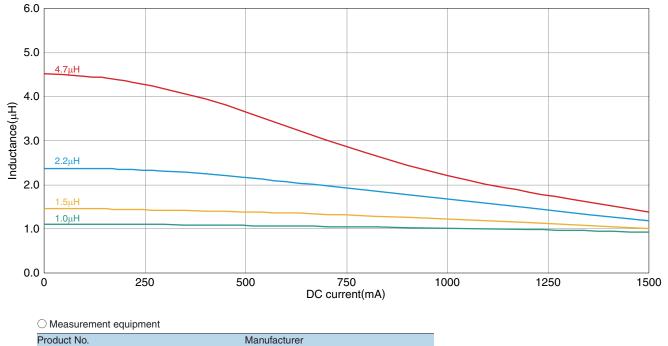
Product No.	Manufacturer		
4294A+16034G	Agilent Technologies		
* Equivalent measurement equipment may be used.			

INDUCTORS

MLPseries MLP2520 Type (V characteristic product, T dimension of the product 1.2mm max.)

ELECTRICAL CHARACTERISTICS

□ INDUCTANCE VS. DC BIAS CHARACTERISTICS GRAPH



Product No.Manufacturer4285A+42841A+42842C+42851-61100Agilent Technologies

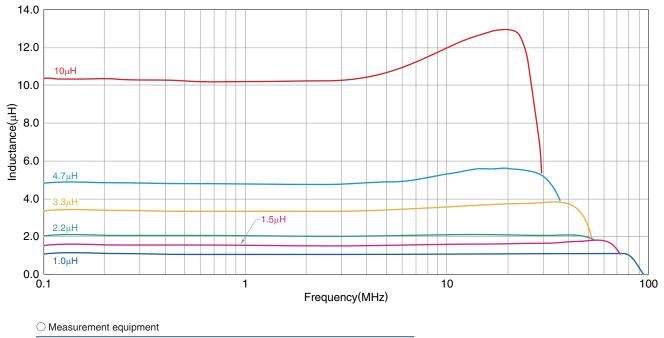
* Equivalent measurement equipment may be used.

INDUCTORS

MLPseries MLP2520 Type (S characteristic product, T dimension of the product 1.0mm max.)

ELECTRICAL CHARACTERISTICS

L FREQUENCY CHARACTERISTICS GRAPH



Product No.	Manufacturer		
4294A+16034G	Agilent Technologies		
* Equivalent measurement equipment may be used.			

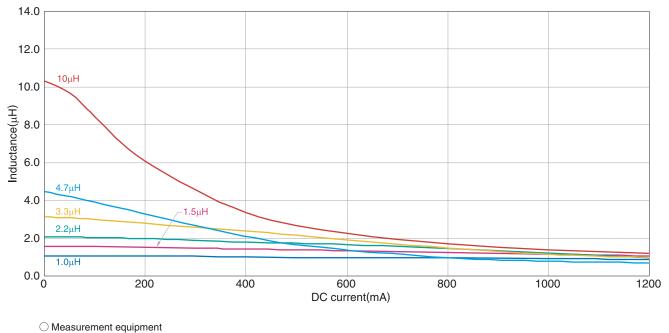
公TDK

Ν D U С 0 R S I Т

MLPseries MLP2520 Type (S characteristic product, T dimension of the product 1.0mm max.)

ELECTRICAL CHARACTERISTICS

INDUCTANCE VS. DC BIAS CHARACTERISTICS GRAPH



Product No.

4285A+42841A+42842C+42851-61100 Agilent Technologies

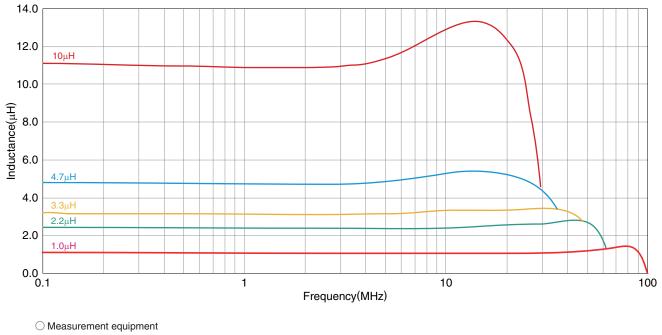
Manufacturer

INDUCTORS

MLPseries MLP2520 Type (S characteristic product, T dimension of the product 1.2mm max.)

ELECTRICAL CHARACTERISTICS

L FREQUENCY CHARACTERISTICS GRAPH



Product No.	Manufacturer		
4294A+16034G	Agilent Technologies		
* Equivalent measurement equipment may be used.			

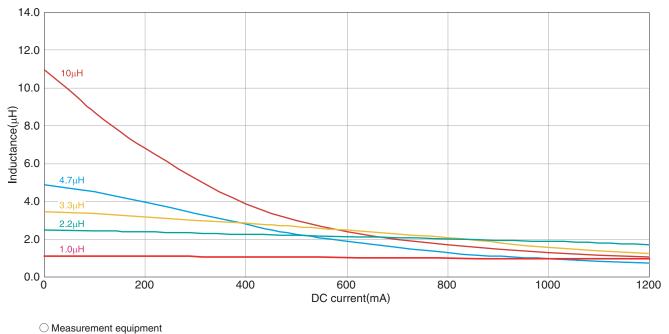
公TDK

Ν D U 0 R S I С Т

MLPseries MLP2520 Type (S characteristic product, T dimension of the product 1.2mm max.)

ELECTRICAL CHARACTERISTICS

INDUCTANCE VS. DC BIAS CHARACTERISTICS GRAPH



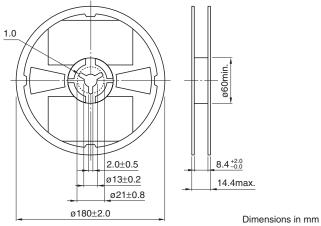
Product No. Manufacturer

4285A+42841A+42842C+42851-61100 Agilent Technologies

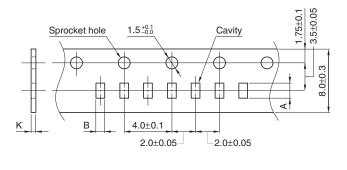
公TDK

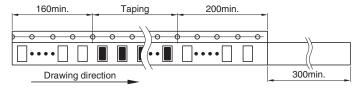
MLPseries **Packaging Style**

REEL DIMENSIONS



TAPE DIMENSIONS





Dimensions in mm

Туре	А	В	K
MLP1005	1.15±0.1	0.65±0.1	1.0 max.
MLP1608	1.9±0.2	1.1±0.2	1.1max.
MLP2012	2.3±0.2	1.5±0.2	1.1max.
MLP2016	2.3±0.2	1.5±0.2	1.1max.
MLP2520	2.7±0.1	2.3±0.2	1.5max.

X-ON Electronics

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VLF5012ST-1R0N2R5 R14493 SWS1000L-24/BL CXA-2115 MCZ1210AH301L2T 78P7200-IH/F MLP2012S1R5TT ACH3218-682-TD01 ACT45B-KIT NL565050T-822J-PF C1005JB1H471K050BA C1608CH1H151J080AA C2012JB1H105K125AB C4532NP01H154J250KA CD75-B2GA331KYGKA CLF10040T-221M CLF12555T-220M R22095*REPAIRED MLF1005LR12K VLS252015T-3R3M1R0 VLS4012T-150MR65 ZCAT-KIT MPZ2012-KIT NLV32T-R27J-EFD CGA3EANP02A682J080AC CKCM25C0G2A101K060AK CLF10040T-4R7N WTM505090-10K2-5V-G1 VLS252010HBX-R24M-1 CGJ2B2X7R1C222K CGA9M1X7T2J334K CGA8P3X7T2E105M/SOFT CGA6J4C0G2J392J CGA6M3X7R2E154K CGA3E3C0G2E181J CGA2B2C0G1H331J C-WPTX01-E6-KIT CEU-AC01-E6-KIT CERB3UX5R0G105M RLF12545T-100M5R1-PF PFE500F28/T CCT406393-600-36-02 PFC3819QM-181K09B-00 VLF3010AT-100MR49 MMZ0603D330C MPZ2012S102ATD25 MLG0603P-2-KIT MLG1608B18NJ UHV-251A FHV-11AN