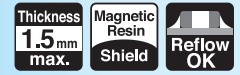
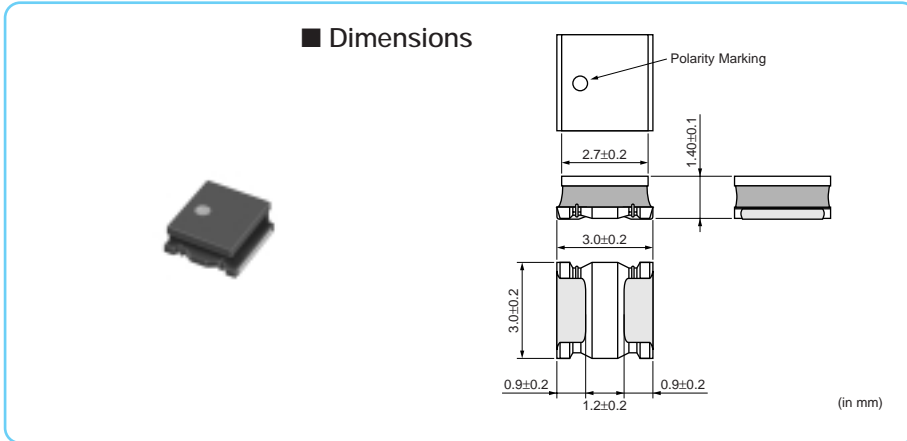


LQH3NP_M0 Series (1212 Size)

LQH3NP_M0



1212 Size, 1.5mm max. Thickness



■ Packaging

Code	Packaging	Minimum Quantity
L	180mm Embossed Tape	1000
K	330mm Embossed Tape	4000

Refer to pages from p.80 to p.83 for mounting information.

■ Rated Value (□: packaging code)

Part Number	Inductance	Rated Current ^{*1} (Based on Inductance Change)	Rated Current ^{*2} (Based on Temperature Rise)	DC Resistance	Self Resonance Frequency (min.)	
LQH3NPN1R0MM0□	1.0μH±20%	1400mA	2050mA	0.044ohm ±20%	130MHz	Kit
LQH3NPN1R0NM0□	1.0μH±30%	1400mA	2050mA	0.044ohm ±20%	130MHz	
LQH3NPN2R2MM0□	2.2μH±20%	1250mA	1600mA	0.073ohm ±20%	90MHz	Kit
LQH3NPN2R2NM0□	2.2μH±30%	1250mA	1600mA	0.073ohm ±20%	90MHz	
LQH3NPN3R3MM0□	3.3μH±20%	1000mA	1450mA	0.092ohm ±20%	75MHz	Kit
LQH3NPN3R3NM0□	3.3μH±30%	1000mA	1450mA	0.092ohm ±20%	75MHz	
LQH3NPN4R7MM0□	4.7μH±20%	880mA	1250mA	0.13ohm ±20%	65MHz	Kit
LQH3NPN4R7NM0□	4.7μH±30%	880mA	1250mA	0.13ohm ±20%	65MHz	
LQH3NPN6R8MM0□	6.8μH±20%	820mA	1000mA	0.20ohm ±20%	50MHz	Kit
LQH3NPN6R8NM0□	6.8μH±30%	820mA	1000mA	0.20ohm ±20%	50MHz	
LQH3NPN100MM0□	10μH±20%	550mA	870mA	0.26ohm ±20%	45MHz	Kit
LQH3NPN100NM0□	10μH±30%	550mA	870mA	0.26ohm ±20%	45MHz	
LQH3NPN150MM0□	15μH±20%	520mA	730mA	0.36ohm ±20%	30MHz	Kit
LQH3NPN150NM0□	15μH±30%	520mA	730mA	0.36ohm ±20%	30MHz	
LQH3NPN220MM0□	22μH±20%	410mA	650mA	0.51ohm ±20%	28MHz	Kit
LQH3NPN330MM0□	33μH±20%	370mA	500mA	0.85ohm ±20%	22MHz	Kit
LQH3NPN470MM0□	47μH±20%	310mA	410mA	1.25ohm ±20%	18MHz	Kit
LQH3NPN101MM0□	100μH±20%	200mA	240mA	3.50ohm ±20%	12MHz	Kit

Test Frequency: 1MHz Class of Magnetic Shield: Magnetic shield of magnetic powder in resin

Operating Temperature Range (Self-temperature rise is included): -40°C to +125°C

Operating Temperature Range (Self-temperature rise is not included): -40°C to +85°C

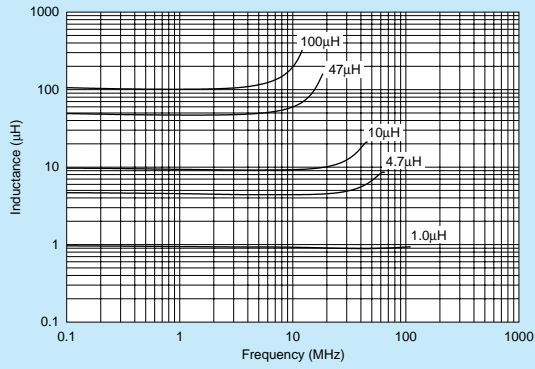
Only for reflow soldering.

*1 When Rated Current is applied to the Products, Inductance will be within ±30% of nominal Inductance value.

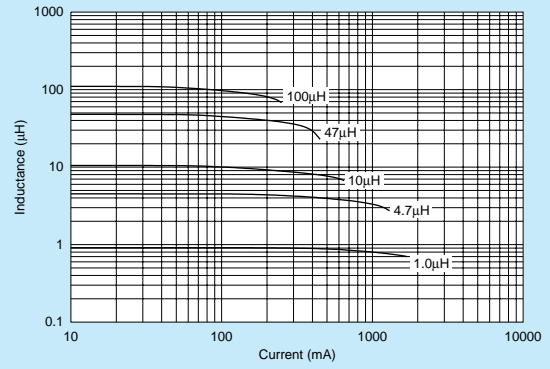
*2 When Rated Current is applied to the Products, self-generation of heat will rise to 40°C or less.

Continued on the following page.

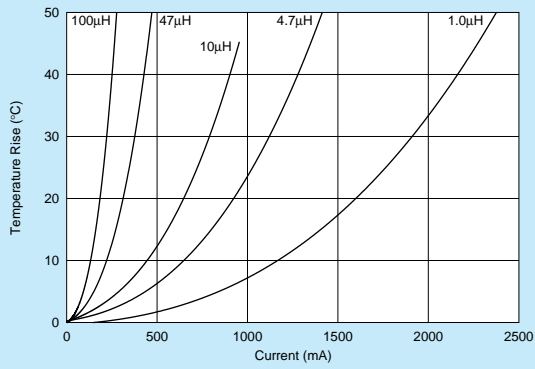
■ Inductance-Frequency Characteristics (Typ.)



■ Inductance-Current Characteristics (Typ.)



■ Temperature Rise Characteristics (Typ.)



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LQH3NP_MR Series (1212 Size)

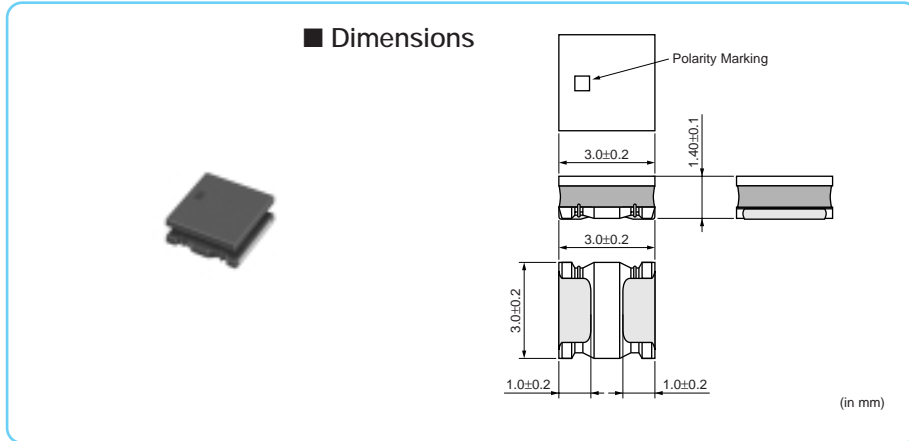
Thickness
1.5mm
max.

Magnetic
Resin
Shield

Reflow
OK

New

Low DC Resistance Type



■ Packaging

Code	Packaging	Minimum Quantity
E	180mm Embossed Tape	2000
F	330mm Embossed Tape	8000

Refer to pages from p.80 to p.83 for mounting information.

■ Rated Value (□: packaging code)

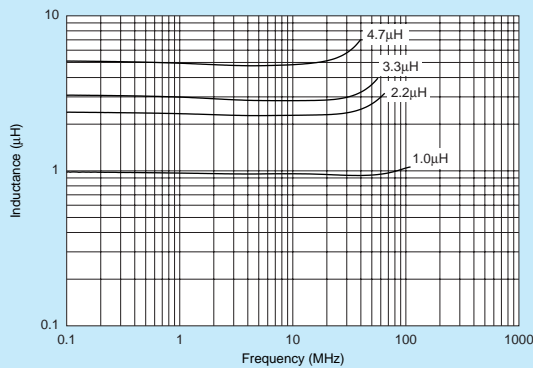
Part Number	Inductance	Rated Current ^{*1} (Based on Inductance Change)	Rated Current ^{*2} (Based on Temperature Rise)	DC Resistance	Self Resonance Frequency (min.)	
LQH3NPN1R0MMR□	1.0μH±20%	1600mA	2150mA	0.042ohm ±20%	135MHz	New
LQH3NPN2R2MMR□	2.2μH±20%	1380mA	1750mA	0.068ohm ±20%	75MHz	New
LQH3NPN3R3MMR□	3.3μH±20%	1200mA	1550mA	0.088ohm ±20%	70MHz	New
LQH3NPN4R7MMR□	4.7μH±20%	950mA	1400mA	0.105ohm ±20%	57MHz	New

Test Frequency: 1MHz Class of Magnetic Shield: Magnetic shield of magnetic powder in resin
 Operating Temperature Range (Self-temperature rise is included): -40°C to +125°C Operating Temperature Range (Self-temperature rise is not included): -40°C to +85°C
 Only for reflow soldering.

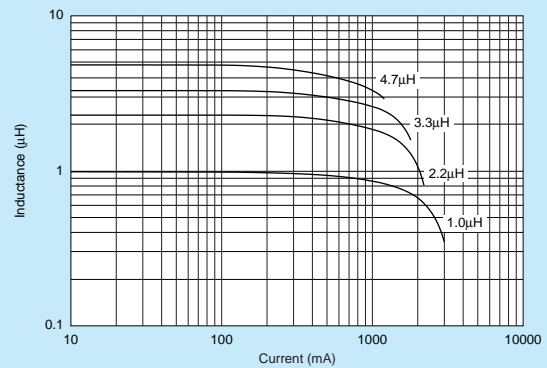
*1 When Rated Current is applied to the Products, Inductance will be within ±30% of nominal Inductance value.

*2 When Rated Current is applied to the Products, self-generation of heat will rise to 40°C or less.

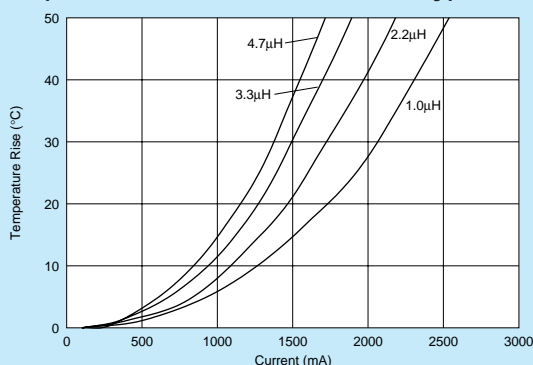
■ Inductance-Frequency Characteristics (Typ.)



■ Inductance-Current Characteristics (Typ.)



■ Temperature Rise Characteristics (Typ.)



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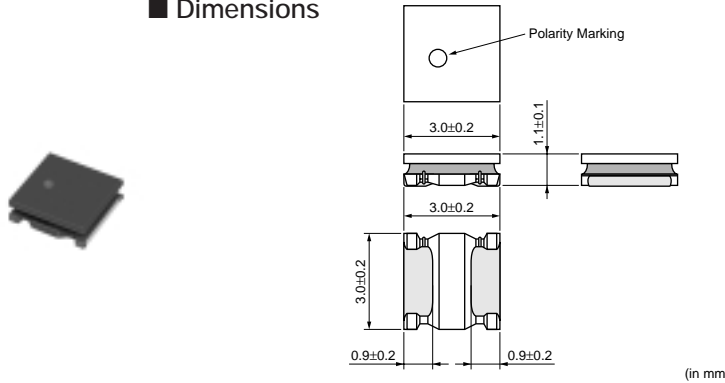
LQH3NP-J0 Series (1212 Size)

LQH3NP_J0



1212 Size, 1.2mm max. Thickness

■ Dimensions



■ Packaging

Code	Packaging	Minimum Quantity
L	180mm Embossed Tape	1000
K	330mm Embossed Tape	5000

Refer to pages from p.80 to p.83 for mounting information.

■ Rated Value (□: packaging code)

Part Number	Inductance	Rated Current ^{*1} (Based on Inductance Change)	Rated Current ^{*2} (Based on Temperature Rise)	DC Resistance	Self Resonance Frequency (min.)	
LQH3NPN1R0NJ0□	1.0μH±30%	1650mA	1620mA	0.040ohm ±20%	140MHz	Kit
LQH3NPN1R5NJ0□	1.5μH±30%	1200mA	1500mA	0.055ohm ±20%	90MHz	Kit
LQH3NPN2R2MJ0□	2.2μH±20%	1150mA	1460mA	0.069ohm ±20%	90MHz	Kit
LQH3NPN2R2NJ0□	2.2μH±30%	1150mA	1460mA	0.069ohm ±20%	90MHz	
LQH3NPN3R3MJ0□	3.3μH±20%	950mA	1270mA	0.105ohm ±20%	70MHz	Kit
LQH3NPN3R3NJ0□	3.3μH±30%	950mA	1270mA	0.105ohm ±20%	70MHz	
LQH3NPN4R7MJ0□	4.7μH±20%	780mA	1120mA	0.130ohm ±20%	65MHz	Kit
LQH3NPN4R7NJ0□	4.7μH±30%	780mA	1120mA	0.130ohm ±20%	65MHz	
LQH3NPN6R8MJ0□	6.8μH±20%	700mA	850mA	0.210ohm ±20%	45MHz	Kit
LQH3NPN6R8NJ0□	6.8μH±30%	700mA	850mA	0.210ohm ±20%	45MHz	
LQH3NPN100MJ0□	10μH±20%	560mA	710mA	0.300ohm ±20%	35MHz	Kit
LQH3NPN100NJ0□	10μH±30%	560mA	710mA	0.300ohm ±20%	35MHz	
LQH3NPN150MJ0□	15μH±20%	440mA	590mA	0.440ohm ±20%	30MHz	Kit
LQH3NPN150NJ0□	15μH±30%	440mA	590mA	0.440ohm ±20%	30MHz	
LQH3NPN220MJ0□	22μH±20%	350mA	510mA	0.600ohm ±20%	25MHz	Kit
LQH3NPN220NJ0□	22μH±30%	350mA	510mA	0.600ohm ±20%	25MHz	
LQH3NPN330MJ0□	33μH±20%	280mA	410mA	0.900ohm ±20%	20MHz	Kit
LQH3NPN330NJ0□	33μH±30%	280mA	410mA	0.900ohm ±20%	20MHz	
LQH3NPN470MJ0□	47μH±20%	200mA	350mA	1.30ohm ±20%	15MHz	Kit
LQH3NPN470NJ0□	47μH±30%	200mA	350mA	1.30ohm ±20%	15MHz	

Test Frequency: 1MHz Class of Magnetic Shield: Magnetic shield of magnetic powder in resin

Operating Temperature Range (Self-temperature rise is included): -40°C to +125°C

Operating Temperature Range (Self-temperature rise is not included): -40°C to +85°C

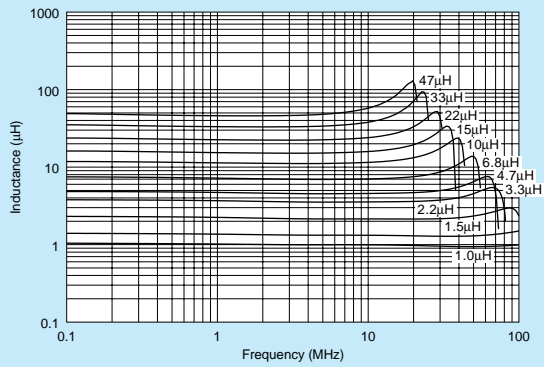
Only for reflow soldering.

*1 When Rated Current is applied to the Products, Inductance will be within ±30% of nominal Inductance value.

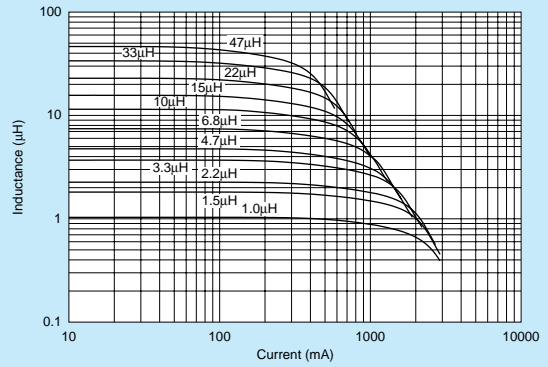
*2 When Rated Current is applied to the Products, self-generation of heat will rise to 40°C or less.

Continued on the following page. ↗

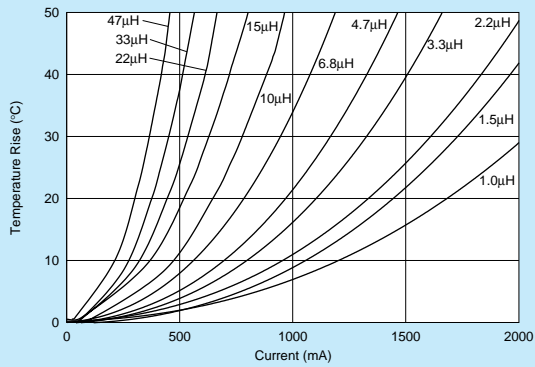
■ Inductance-Frequency Characteristics (Typ.)



■ Inductance-Current Characteristics (Typ.)



■ Temperature Rise Characteristics (Typ.)



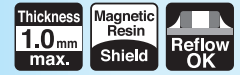
Wire Wound Magnetic Type for Voltage Conversion Inductor for Power Lines (Power Inductor)

Inductor for Low Frequency Circuits

RF Inductor

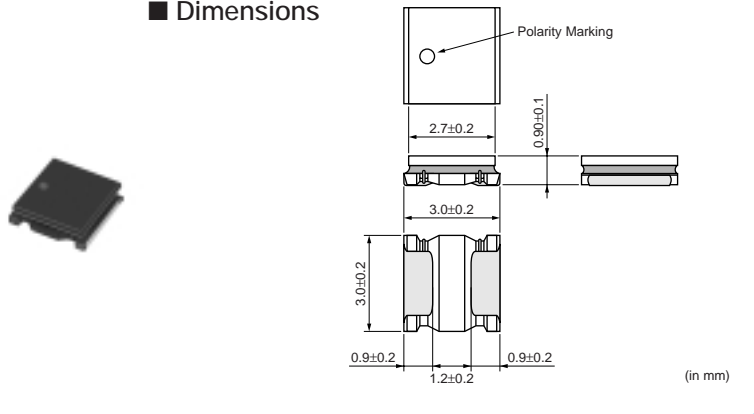
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LQH3NP_G0 Series (1212 Size)



1212 Size, 1.0mm max. Thickness

■ Dimensions



■ Packaging

Code	Packaging	Minimum Quantity
L	180mm Embossed Tape	1500
K	330mm Embossed Tape	6000

Refer to pages from p.80 to p.83 for mounting information.

■ Rated Value (□: packaging code)

Part Number	Inductance	Rated Current ^{*1} (Based on Inductance Change)	Rated Current ^{*2} (Based on Temperature Rise)	DC Resistance	Self Resonance Frequency (min.)	
LQH3NPN1R0NG0□	1.0μH±30%	1650mA	1525mA	0.08ohm ±20%	160MHz	Kit
LQH3NPN1R5NG0□	1.5μH±30%	1300mA	1470mA	0.10ohm ±20%	130MHz	Kit
LQH3NPN2R2NG0□	2.2μH±30%	1250mA	1270mA	0.14ohm ±20%	100MHz	Kit
LQH3NPN3R3NG0□	3.3μH±30%	850mA	1130mA	0.18ohm ±20%	75MHz	Kit
LQH3NPN4R7NG0□	4.7μH±30%	800mA	925mA	0.26ohm ±20%	60MHz	Kit
LQH3NPN6R8NG0□	6.8μH±30%	650mA	710mA	0.45ohm ±20%	48MHz	Kit
LQH3NPN100MG0□	10μH±20%	500mA	630mA	0.57ohm ±20%	45MHz	Kit
LQH3NPN100NG0□	10μH±30%	500mA	630mA	0.57ohm ±20%	45MHz	
LQH3NPN150NG0□	15μH±30%	370mA	475mA	0.91ohm ±20%	35MHz	Kit
LQH3NPN220MG0□	22μH±20%	340mA	430mA	1.1ohm ±20%	25MHz	Kit
LQH3NPN220NG0□	22μH±30%	340mA	430mA	1.1ohm ±20%	25MHz	
LQH3NPN330MG0□	33μH±20%	250mA	345mA	2.1ohm ±20%	24MHz	Kit
LQH3NPN330NG0□	33μH±30%	250mA	345mA	2.1ohm ±20%	24MHz	
LQH3NPN470MG0□	47μH±20%	170mA	270mA	3.0ohm ±20%	19MHz	Kit
LQH3NPN470NG0□	47μH±30%	170mA	270mA	3.0ohm ±20%	19MHz	
LQH3NPN680MG0□	68μH±20%	150mA	235mA	4.2ohm ±20%	16MHz	Kit
LQH3NPN680NG0□	68μH±30%	150mA	235mA	4.2ohm ±20%	16MHz	
LQH3NPN101MG0□	100μH±20%	140mA	165mA	8.0ohm ±20%	10MHz	Kit
LQH3NPN101NG0□	100μH±30%	140mA	165mA	8.0ohm ±20%	10MHz	
LQH3NPN151MG0□	150μH±20%	110mA	145mA	11.0ohm ±20%	10MHz	Kit
LQH3NPN151NG0□	150μH±30%	110mA	145mA	11.0ohm ±20%	10MHz	
LQH3NPN221MG0□	220μH±20%	100mA	130mA	14.0ohm ±20%	8.5MHz	Kit
LQH3NPN221NG0□	220μH±30%	100mA	130mA	14.0ohm ±20%	8.5MHz	
LQH3NPN251MG0□	250μH±20%	80mA	130mA	15.0ohm ±20%	8.0MHz	Kit
LQH3NPN251NG0□	250μH±30%	80mA	130mA	15.0ohm ±20%	8.0MHz	

Test Frequency: 1MHz Class of Magnetic Shield: Magnetic shield of magnetic powder in resin
 Operating Temperature Range (Self-temperature rise is not included): -40°C to +85°C
 Only for reflow soldering.

*1 When Rated Current is applied to the Products, Inductance will be within ±30% of nominal Inductance value.

*2 When Rated Current is applied to the Products, self-generation of heat will rise to 40°C or less.

Continued on the following page.

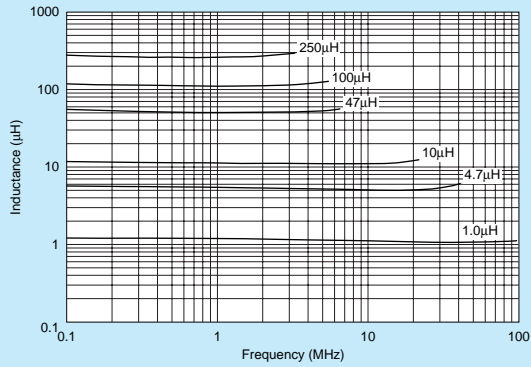
△Note • Please read rating and △CAUTION (for storage, operating, rating, soldering, mounting and handling) in this catalog to prevent smoking and/or burning, etc.
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Inductor for Power Lines (Power Inductor)
 Wire Wound Magnetic Type for Voltage Conversion

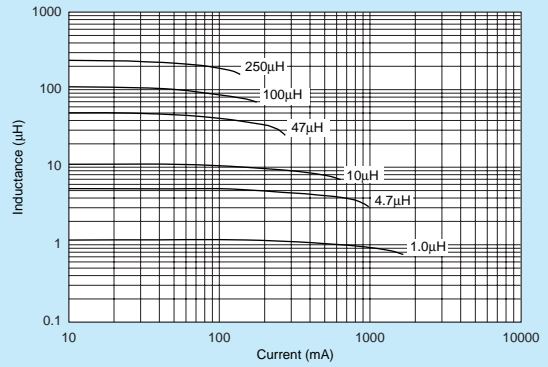
Inductor for Low Frequency Circuits

RF Inductor

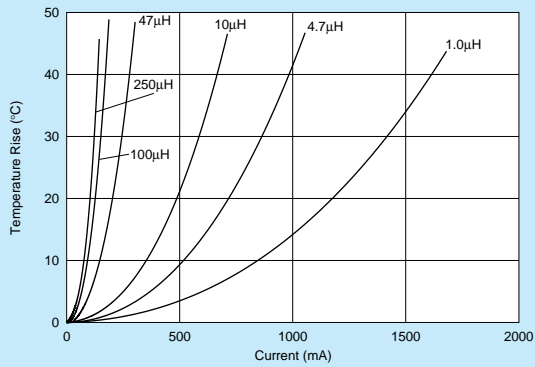
■ Inductance-Frequency Characteristics (Typ.)



■ Inductance-Current Characteristics (Typ.)



■ Temperature Rise Characteristics (Typ.)



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