Panasonic INDUSTRY

Power Inductors



Power Choke Coil (Automotive Grade) PCC-M0530M-LP, PCC-M0630M-LP series PCC-M0840M-LP, PCC-M1040M-LP series

High heat resistance and high reliability using metal composite core (MC)

Industrial property : Patents 3 (Registered 2 / Pending 1)

Features	
● High heat resistance	: Operation up to 155 °C including self-heating. (180 °C short time*)
	* Please contact for possible to use over 155 °C condition. Temperature up to 180 °C may possibly be used.
Low profile	:3 mm max. height (PCC-M0530M-LP, PCC-M0630M-LP)
	4 mm max. height (PCC-M0840M-LP, PCC-M1040M-LP)
● SMD type	
 High-reliability 	: High vibration resistance as result of newly developed integral construction ;
0	under severe reliability conditions of automotive and other strenuous applications
High bias current	: Excellent inductance stability using ferrous alloy magnetic material
●Temp. stability	: Excellent inductance stability over broad temp. range
● Low audible (buzz) noise	: A gapless structure achieved with metal composite core
High efficiency	: Low DC resistance of winding and low eddy-current loss of the core
 Shielded construction 	
● AEC-Q200 compliant	

RoHS compliant

Recommended applications

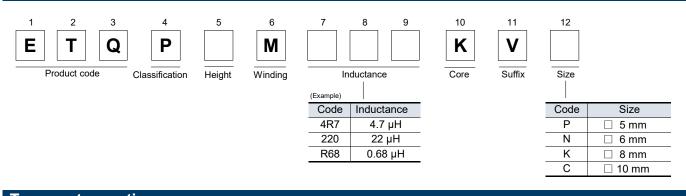
• Noise filter for various drive circuitry requiring high temp. operation and peak current handling capability

Boost-Converter, Buck-Converter DC/DC

Standard packing quantity (Minimum quantity/Packing unit)

- ●4,000 pcs/box (2 reel) : PCC-M0530M-LP, M0630M-LP
- ●1,000 pcs/box (2 reel) : PCC-M0840M-LP, M1040M-LP

Explanation of part numbers



Temperature rating Operating temperature range Tc: -55 °C to +155 °C (Including self-temperature rise) Storage condition After PWB mounting Ta: -5 °C to +35 °C 85%RH max.

Standard pa	irts								
Part No.	Indu	ctance ^{*1}	DCR (at 20 ℃) (mΩ)		Rated currer	Vibration resistance (G)	MSL level	Series	
Tarrio.	L0	Tolerance	Typ. (max.)	Tolerance	riangleT= 40 K ^{*2}	∆L=	*5	*6	[Size (mm)]
	(µH)	(%)	Typ. (max.)	(%)	()*3	-30 %*4	5	0	
ETQP3M100KVP	10.0		96.0 (105.60)		2.9 (2.4)	4.2			
ETQP3M6R8KVP	6.8		65.7 (72.27)		3.5 (2.9)	6.1			
ETQP3M4R7KVP	4.7		45.6 (50.16)		4.1(3.4)	6.7		1	PCC-M0530M-LP
ETQP3M3R3KVP	3.3		27.3 (30.03)		5.4 (4.4)	8.0			
ETQP3M2R2KVP	2.2	±20	20.0 (22.00)	±10	6.3 (5.2)	10.1	10.0		
ETQP3M1R5KVP	1.5	120	12.0 (13.20)	±10	8.1 (6.7)	12.0	10.0		[5.5×5.0×3.0]
ETQP3M1R0KVP	1.0		9.6 (10.56)		9.0 (7.5)	14.1			
ETQP3MR68KVP	0.68		7.6 (8.36)		10.2 (8.4)	15.9			
ETQP3MR47KVP	0.47		5.8 (6.38)		11.6 (9.6)	17.9			
ETQP3MR33KVP	0.33	1	4.85 (5.34)		12.7 (10.6)	21.8			

*1: Measured at 100 kHz

*2: The proved current value for making the overall temperature rise of 40K, when mounted on a multi-layer board with high-heat dissipation (heat dissipation constant 5.5 x 5.0 x 3.0 mm : approx. 51 K/W).

*3: The proved current value for making the overall temperature rise of 40K, when mounted on a 4-layer circuit board of FR4 t=1.6 mm and DC current is applied.

*4: Saturation rated current : DC current which causes L(0) drop -30 %.

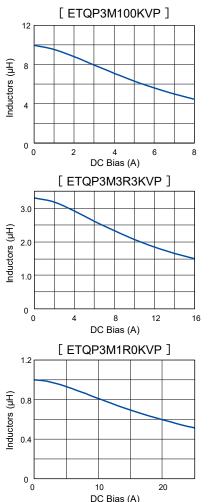
*5: Vibration resistance conditions : Amplitude: 5 mm or less, sweep speed: 1 oct / min, frequency 5-2000 Hz, 3 directions / 4 hours each, total 12 hours

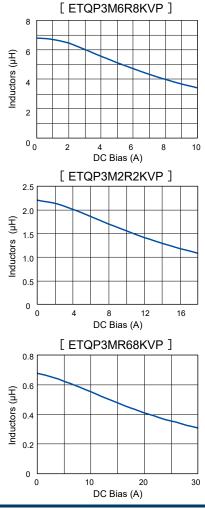
*6: The solderability is guaranteed for 1 year only. The product out of expiration date shall not be used.

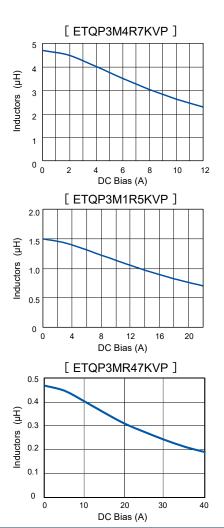
Within a suitable application, the part's temperature depends on circuit design and certain heat dissipation conditions. This should be double checked in a worst case operation mode. In normal case, the max.standard operating temperature of +155°C should not be exceeded. Please contact for possible to use over 155 °C condition. Temperature up to 180 °C may possibly be used.

Performance characteristics (Reference 1 - 1)

Inductance vs DC Current

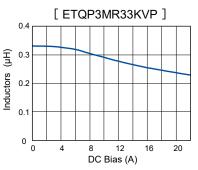






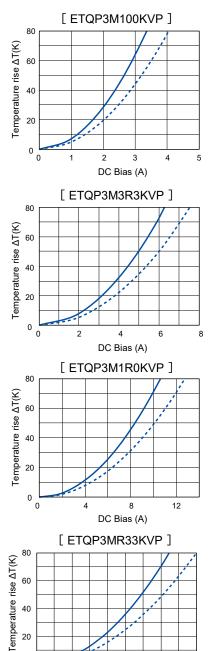
Performance characteristics (Reference 1-2)

Inductance vs DC Current



Performance characteristics (Reference2)

- Case Temperature vs DC Current
 - PWB condition A : Four-layer PWB (1.6 mm FR4).*3
 - - PWB condition B : Multilayer PWB with high heat dissipation performance.*2



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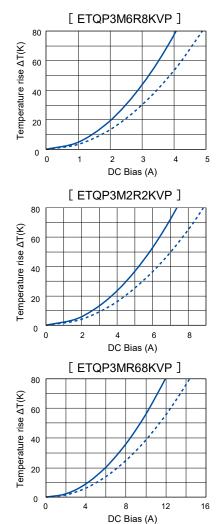
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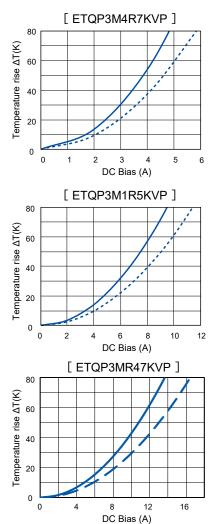
8

DC Bias (A)

12

16





2. PCC-M0630M-LP series (ETQP3M C KVN)

Standard parts									
Part No.	Inductance ^{*1}		DCR (at 20 (mΩ)	°C)	Rated currer	Vibration resistance (G)	MSL level	Series	
i artivo.	L0	Tolerance	$T_{\rm MD}$ (may)	Tolerance	riangleT= 40 K ^{*2}	∆L=	*5	*6	[Size (mm)]
	(µH)	(%)	Typ. (max.)	(%)	()*3	-30 % ^{*4}	5	0	
ETQP3M330KVN	33.0		206.0 (226.60)		2.1 (1.7)	3.0		1	PCC-M0630M-LP [6.4×6.0×3.0]
ETQP3M220KVN	22.0		128.0 (140.80)		2.7 (2.2)	4.3			
ETQP3M150KVN	15.0		99.2 (109.12)		3.0 (2.5)	5.1			
ETQP3M100KVN	10.0		71.0 (78.10)		3.6 (2.9)	5.8			
ETQP3M6R8KVN	6.8		45.6 (50.16)		4.5 (3.6)	8.1			
ETQP3M4R7KVN	4.7	±20	29.0 (31.90)	±10	5.6 (4.6)	9.8	10.0		
ETQP3M3R3KVN	3.3		24.1 (26.51)		6.1 (5.0)	11.5			[0.4^0.0^3.0]
ETQP3M2R2KVN	2.2		14.5 (15.95)		7.9 (6.5)	12.8			
ETQP3M1R5KVN	1.5		11.0 (12.10)		9.1 (7.4)	14.2			
ETQP3M1R0KVN	1.0		6.2 (6.82)		12.1 (9.9)	16.0			
ETQP3MR68KVN	0.68		5.2 (5.72)		13.2 (10.8)	20.2			

*1: Measured at 100 kHz

*2: The proved current value for making the overall temperature rise of 40K, when mounted on a multi-layer board with high-heat dissipation (heat dissipation constant 6.5 x 6.0 x 3.0 mm : approx. 44 K/W).

*3: The proved current value for making the overall temperature rise of 40K, when mounted on a 4-layer circuit board of

FR4 t=1.6 mm and DC current is applied.

*4: Saturation rated current : DC current which causes L(0) drop -30 %.

*5: Vibration resistance conditions : Amplitude: 5 mm or less, sweep speed: 1 oct / min, frequency 5-2000 Hz, 3 directions / 4 hours each, total 12 hours

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Inductors (µH)

*6: The solderability is guaranteed for 1 year only. The product out of expiration date shall not be used.

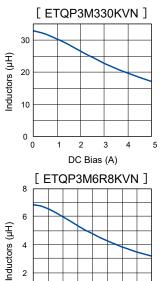
[ETQP3M220KVN]

• Within a suitable application, the part's temperature depends on circuit design and certain heat dissipation conditions. This should be double checked in a worst case operation mode. In normal case, the max.standard operating temperature of +155°C should not be exceeded. Please contact for possible to use over 155 °C condition. Temperature up to 180 °C may possibly be used.

Performance characteristics (Reference(1))

25

Inductance vs DC Current



12

0

2.0

1.5

0.5

0

0 4

Inductors (µH) 1.0

0

4

8

DC Bias (A)

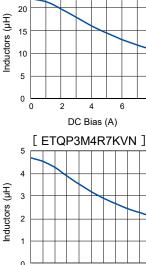
ETQP3M1R5KVN

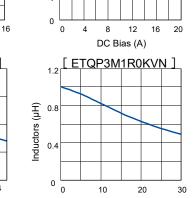
16 20 24

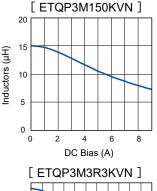
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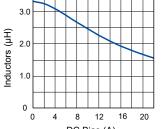
DC Bias (A)

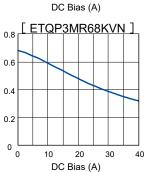
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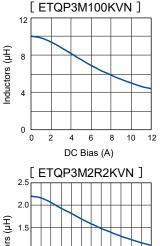


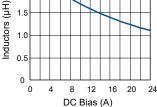












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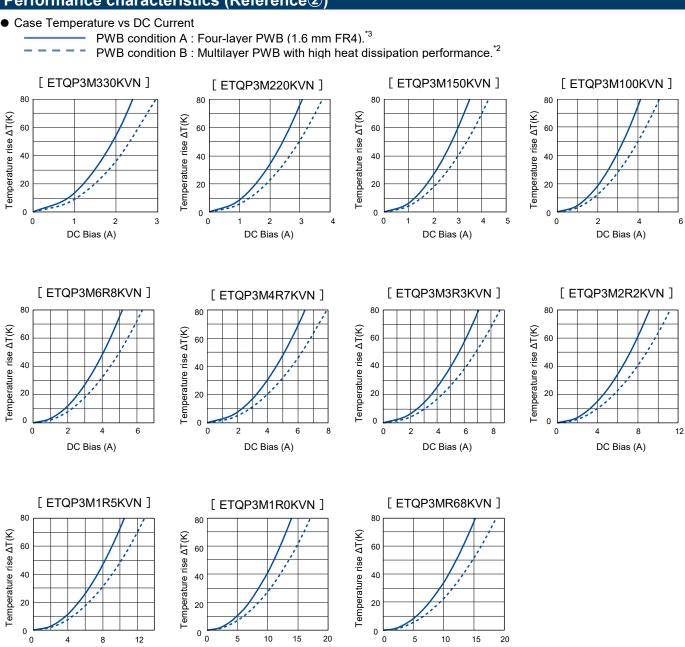
DC Bias (A)

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Performance characteristics (Reference⁽²⁾)

DC Bias (A) 

DC Bias (A)

DC Bias (A)

3. PCC-M0840M-LP series (ETQP4M 🗆 🗆 KVK)

Standard parts												
Part No.	Inductance ^{*1}		DCR (at 20 (mΩ)	°C)	Rated currer	Vibration resistance (G)	MSL level	Series				
i artivo.	L0	Tolerance	T_{yp} (may)	Tolerance	riangleT= 40 K ^{*2}	∆L=	*5	*6	[Size (mm)]			
	(µH)	(%)	Typ. (max.)	(%)	() ^{*3}	-30 % ^{*4}	5	0				
ETQP4M330KVK	33.0		118.0 (129.80)		3.1 (2.6)	4.7						
ETQP4M220KVK	22.0		78.4 (86.24)		3.8 (3.2)	6.0						
ETQP4M150KVK	15.0		55.0 (60.50)		4.5 (3.8)	7.6		1	PCC-M0840M-LP			
ETQP4M100KVK	10.0		41.6 (45.76)		5.2 (4.4)	9.1						
ETQP4M6R8KVK	6.8		23.5 (25.85)		6.9 (5.9)	11.0						
ETQP4M4R7KVK	4.7	±20	16.1 (17.71)	±10	8.3 (7.1)	15.1	5.0		[8.5×8.0×4.0]			
ETQP4M3R3KVK	3.3		14.1 (15.51)		8.9 (7.6)	17.4			[0.5^0.0^4.0]			
ETQP4M2R2KVK	2.2		8.5 (9.35)		11.4 (9.8)	20.4						
ETQP4M1R5KVK	1.5		4.9 (5.39)		15.1 (12.8)	22.5						
ETQP4M1R0KVK	1.0		3.7 (4.07)		17.3 (14.8)	24.4						
ETQP4MR68KVK	0.68		2.92 (3.21)		19.5 (16.6)	29.0						

*1: Measured at 100 kHz

*2: The proved current value for making the overall temperature rise of 40K, when mounted on a multi-layer board with high-heat dissipation (heat dissipation constant 8.5×8.0×4.0 mm : approx. 36 K/W).

*3: The proved current value for making the overall temperature rise of 40K, when mounted on a 4-layer circuit board of

FR4 t=1.6 mm and DC current is applied.

*4: Saturation rated current : DC current which causes L(0) drop -30 %.

*5: Vibration resistance conditions : Amplitude: 5 mm or less, sweep speed: 1 oct / min, frequency 5-2000 Hz, 3 directions / 4 hours each, total 12 hours

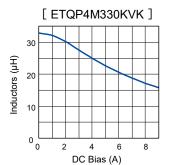
*6: The solderability is guaranteed for 1 year only. The product out of expiration date shall not be used.

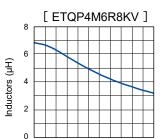
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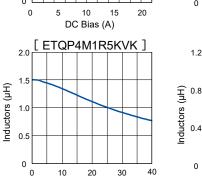
• Within a suitable application, the part's temperature depends on circuit design and certain heat dissipation conditions. This should be double checked in a worst case operation mode. In normal case, the max.standard operating temperature of +155°C should not be exceeded. Please contact for possible to use over 155 °C condition. Temperature up to 180 °C may possibly be used.

Performance characteristics (Reference(1))

Inductance vs DC Current



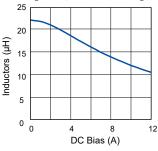




DC Bias (A)

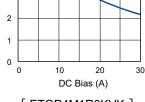
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ETQP4M220KVK]



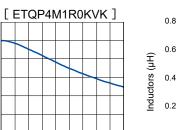


1.2

0

0

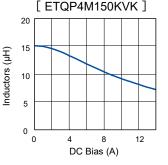
10 20



30

DC Bias (A)

40





Inductors (µH)

0

0.8

0.6

0 .

10 20 30 40 50

0

10



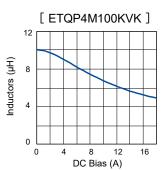
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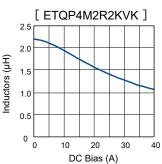
DC Bias (A)

ETQP4MR68KVK]

DC Bias (A)

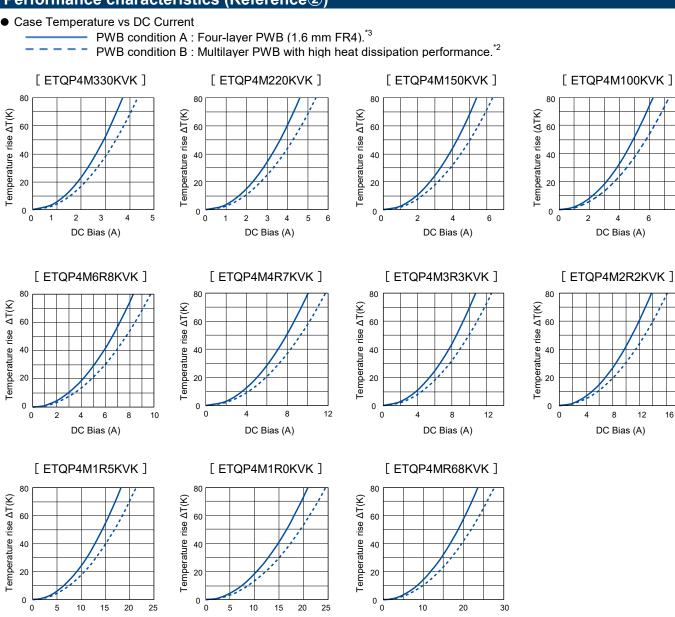
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Performance characteristics (Reference2)

DC Bias (A)



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DC Bias (A)

DC Bias (A)

8

16

Standard parts									
Part No.	Indu	uctance ^{*1} DCR (at 20 ℃ (mΩ)		A Rated current (A) IVD.			Vibration resistance (G)	MSL level	Series
r art No.	L0	Tolerance	Typ. (max.)	Tolerance	riangleT= 40 K ^{*2}	∆L=	*5	*6	[Size (mm)]
	(µH)	(%)	тур. (пах.)	(%)	()*3	-30 % ^{*4}	5	0	
ETQP4M101KVC	100.0		242.0 (266.20)		2.5 (2.0)	3.5			
ETQP4M680KVC	68.0		178.4 (196.24)		2.9 (2.4)	4.7			
ETQP4M470KVC	47.0		132.0 (145.20)		3.4 (2.8)	4.7			
ETQP4M330KVC	33.0		84.6 (93.06)		4.2 (3.4)	5.6			
ETQP4M220KVC	22.0		60.0 (66.00)		5.0 (4.1)	7.4			
ETQP4M150KVC	15.0		37.0 (40.70)		6.3 (5.2)	9.2			PCC-M1040M-LP
ETQP4M100KVC	10.0	±20	25.4 (27.94)	±10	7.6 (6.3)	10.8	5.0	1	[10.7×10.0×4.0]
ETQP4M6R8KVC	6.8		18.5 (20.35)		8.9 (7.4)	12.1			[10.7 * 10.0 * 4.0]
ETQP4M4R7KVC	4.7		12.3 (13.53)		11.2 (9.2)	13.9			
ETQP4M3R3KVC	3.3		9.4 (10.34)		12.6 (10.3)	17.1			
ETQP4M2R2KVC	2.2		6.8 (7.48)		14.8 (12.1)	21.0			
ETQP4M1R5KVC	1.5]	4.9 (5.39)]	17.4 (14.3)	25.0			
ETQP4M1R0KVC	1.0]	2.6 (2.86)		23.9 (19.6)	34.6			

*1: Measured at 100 kHz

*2: The proved current value for making the overall temperature rise of 40K, when mounted on a multi-layer board with high-heat dissipation (heat dissipation constant 10.7×10.0×4.0 mm : approx. 27 K/W).

*3: The proved current value for making the overall temperature rise of 40K, when mounted on a 4-layer circuit board of FR4 t=1.6 mm and DC current is applied.

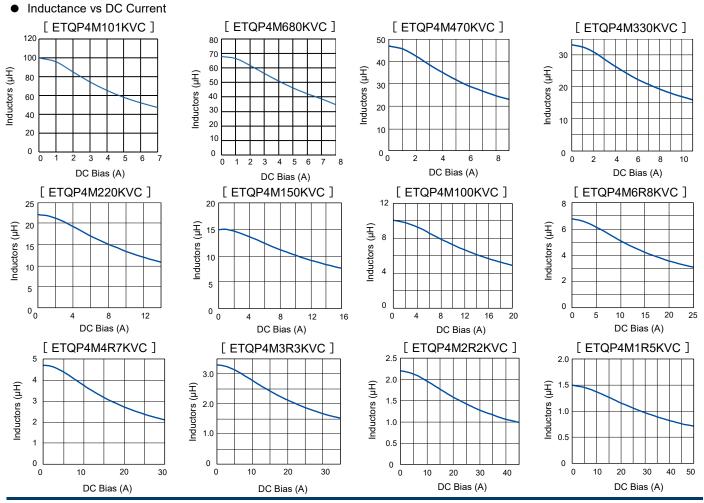
*4: Saturation rated current : DC current which causes L(0) drop -30 %.

*5: Vibration resistance conditions : Amplitude: 5 mm or less, sweep speed: 1 oct / min, frequency 5-2000 Hz, 3 directions / 4 hours each, total 12 hours

*6: The solderability is guaranteed for 1 year only. The product out of expiration date shall not be used.

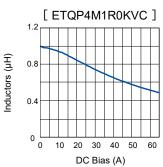
Within a suitable application, the part's temperature depends on circuit design and certain heat dissipation conditions. This should be double checked in a worst case operation mode. In normal case, the max.standard operating temperature of +155°C should not be exceeded. Please contact for possible to use over 155 °C condition. Temperature up to 180 °C may possibly be used.

Performance characteristics (Reference①)



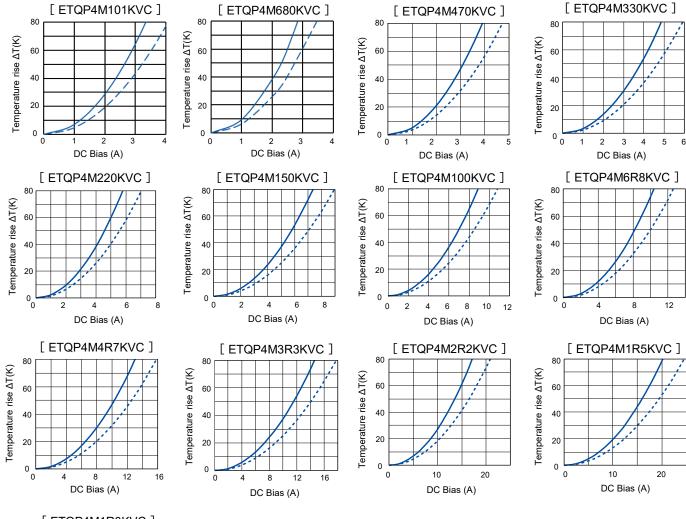
Performance characteristics (Reference1)

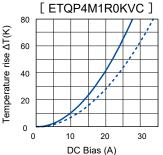
Inductance vs DC Current



Performance characteristics (Reference 2)

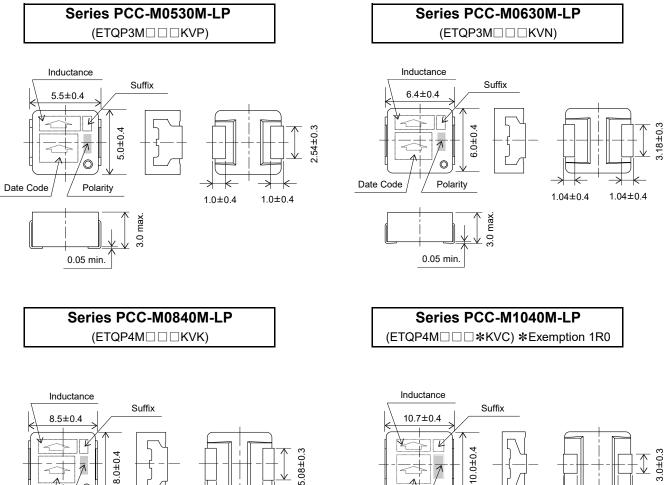
- Case Temperature vs DC Current
 - PWB condition A : Four-layer PWB (1.6 mm FR4).^{*3}
 - --- PWB condition B : Multilayer PWB with high heat dissipation performance.²



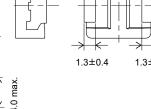


Dimensions in mm (not to scale)

Dimensional tolerance unless noted : ±0.5

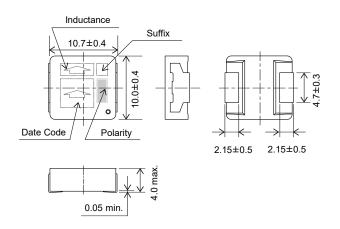


8.0±0.4 1 O Date Code Polarity 1.3±0.4 1.3±0.4



Series PCC-M1040M-LP	
(ETQP4M1R0KVC)	

0.05 min.

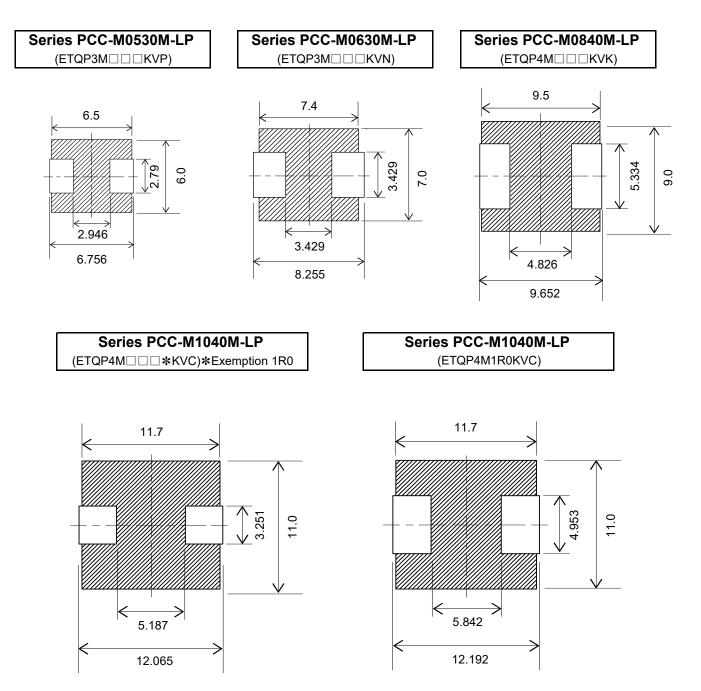


10.0±0.4 3.0±0.3 1 0 Date Code Polarity 2.08 ± 0.4 2.08±0.4 4.0 max. 0.05 min.

Unit : mm

Recommended land pattern in mm (not to scale)

Dimensional tolerance unless noted : ±0.5



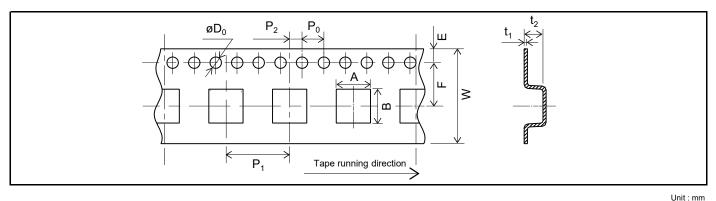
*Don't wire on the pattern on shaded portion the PWB.

Unit : mm

As for soldering conditions and safety precautions (Power choke coils (Automotive grade)), please see data files

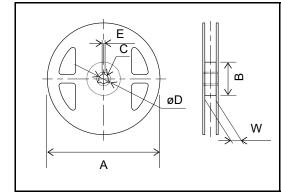
Packaging methods (Taping)

• Embossed carrier tape dimensions in mm (not to scale)



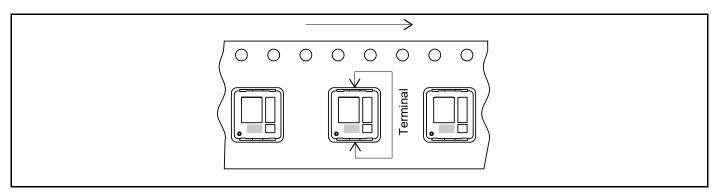
											Unit . Inin
Series	Α	В	W	E	F	P ₁	P ₂	Ρ ₀	øD ₀	t ₁	t ₂
PCC-M0530M-LP	5.6	6.1	12	1.75	5.5	8	2	4	1.5	0.3	3.3
PCC-M0630M-LP	6.5	7.1	16	1.75	7.5	8	2	4	1.5	0.3	3.3
PCC-M0840M-LP	8.63	9.1	16	1.75	7.5	12	2	4	1.5	0.4	6.0
PCC-M1040M-LP	10.65	11.75	24	1.75	11.5	16	2	4	1.5	0.5	6.35

• Taping reel dimensions in mm (not to scale)



						Unit : mm
Series	A	В	С	øD	E	W
PCC-M0530M-LP						13.5
PCC-M0630M-LP	330	(100)	13	21	2	17.5
PCC-M0840M-LP	330	(100)	15	21	2	17.5
PCC-M1040M-LP	1					25.5
						•

Parts mounting (Taping)



Standard packing quantity / Reel

Serise	Part No.	Minimum quantity / Packing unit	Quantity per reel		
PCC-M0530M-LP	ETQP3M CKVP	4,000 pcs / box (2 rool)	2,000 pcs		
PCC-M0630M-LP	ETQP3M CKVN	4,000 pcs / box (2 reel)			
PCC-M0840M-LP	ETQP4M 🗆 🗆 KVK	1,000 pcc / box (2 rool)	500 per		
PCC-M1040M-LP	ETQP4M CKVC	– 1,000 pcs / box (2 reel)	500 pcs		

Guidelines and precautions regarding the technical information and use of our products described in this online catalog.

- If you want to use our products described in this online catalog for applications requiring special qualities or reliability, or for applications where the failure or malfunction of the products may directly jeopardize human life or potentially cause personal injury (e.g. aircraft and aerospace equipment, traffic and transportation equipment, combustion equipment, medical equipment, accident prevention, anti-crime equipment, and/or safety equipment), it is necessary to verify whether the specifications of our products fit to such applications. Please ensure that you will ask and check with our inquiry desk as to whether the specifications of our products fit to such applications of our products.
- The quality and performance of our products as described in this online catalog only apply to our products when used in isolation. Therefore, please ensure you evaluate and verify our products under the specific circumstances in which our products are assembled in your own products and in which our products will actually be used.
- Please ensure the safety by means of protection circuit, redundant circuit etc. in your system design in order to prevent the occurrence of life crisis and other serious damages due to the failure of our products.
- The products and product specifications described in this online catalog are subject to change for improvement without prior notice. Therefore, please be sure to request and confirm the latest product specifications which explain the specifications of our products in detail, before you finalize the design of your applications, purchase, or use our products.
- The technical information in this online catalog provides examples of our products' typical operations and application circuits. We do not guarantee the non-infringement of third party's intellectual property rights and we do not grant any license, right, or interest in our intellectual property.
- If any of our products, product specifications and/or technical information in this online catalog is to be exported or provided to non-residents, the laws and regulations of the exporting country, especially with regard to security and export control, shall be observed.

<Regarding the Certificate of Compliance with the EU RoHS Directive/REACH Regulations>

- The switchover date for compliance with the RoHS Directive/REACH Regulations varies depending on the part number or series of our products.
- When you use the inventory of our products for which it is unclear whether those products are compliant with the RoHS Directive/REACH Regulation, please select "Sales Inquiry" in the website inquiry form and contact us.

Please note that we do not owe any liability and responsibility if our products are used beyond the description of this catalog or without complying with precautions in this catalog.

Application Guidelines (Automotive grade)

Safety precautions

- When using our products, no matter what sort of equipment they might be used for, be sure to make a written agreement on the specifications with us in advance. The design and specifications in this catalog are subject to change without prior notice.
- Do not use the products beyond the specifications described in this catalog.
- This catalog explains the quality and performance of the products as individual components. Before use, check and evaluate their operations when installed in your products.
- Install the following systems for a failsafe design to ensure safety if these products are to be used in equipment where a defect in these products may cause the loss of human life or other significant damage, such as damage to vehicles (automobile, train, vessel), traffic lights, medical equipment, aerospace equipment, electric heating appliances, combustion/gas equipment, rotating equipment, and disaster/crime prevention equipment.
 - $\boldsymbol{\ast}$ Systems equipped with a protection circuit and a protection device.
 - * Systems equipped with a redundant circuit or other system to prevent an unsafe status in the event of a single fault.

Precautions for use

1. Provision to abnormal condition

This power choke coil itself does not have any protective function in abnormal condition such as overload, short-circuit and open-circuit conditions, etc.

Therefore, it shall be confirmed as the end product that there is no risk of smoking, fire, dielectric withstand voltage, insulation resistance, etc. in abnormal conditions to provide protective devices and/or protection circuit in the end product.

2. Temperature rise

Temperature rise of power choke coil depends on the installation condition in end products. It shall be confirmed in the actual end product that temperature rise of power choke coil is in the limit of specified temperature class.

3. Dielectric strength

Dielectric withstanding test with higher voltage than specific value will damage Insulating material and shorten its life.

4. Water

This Power choke coil must not be used in wet condition by water, coffee or any liquid because insulation strength becomes very low in such condition.

5. Potting

If this power choke coil is potted in some compound, coating material of magnet wire might be occasionally damaged. Please ask us if you intend to pot this power choke coil.

6. Model

When this power choke coil is used in a similar or new product to the original one, it might be unable to satisfy he specifications due to difference of condition of usage.

Please ask us if you use this power choke coil in the manner such as above.

7. Drop

If the power choke coil receives mechanical stress such as drop, characteristics may become poor (due to damage on coil bobbin, etc.). Never use such stressed power choke coil.

8. Buzz Noise

When this coil is used in the frequency band of the audible range (= 20 Hz to 20 kHz), or, when using in burst mode, depending on the operating conditions (conditions of the energized waveform) sounds (buzz noise) may occur. Depending on the circuit / board installation environment it may be heard as abnormal sounds, so please check in advance.

9. Solvent (Series MC)

If this power choke coil is dipped in the cleaning agent, and the coating agent of the toluene and the xylene system, there is a possibility that the performance decreases greatly. Please ask us if you intend to pot this power choke coil.

10. Static electricity measures (Series MC)

①Circuit design

Please set up the ESD measures parts such as capacitors in the former steps of this power choke coil for static electricity when there is a possibility that static electricity is impressed to the choke coil on the circuit. Moreover, please consult our company about such a case once.

②Treatment with single

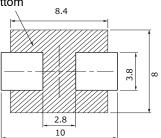
Take countermeasures against static electricity when using single power choke coil. (process and equipment) There is a possibility that the characteristic changes when the voltage of 200 V or more is impressed to this power choke coil. Please handle 200 V or less.

11. Printed circuit board design

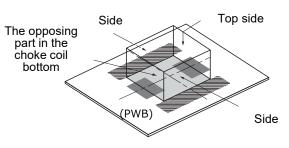
①Land pattern and Via which exceed Operating Voltage, should not be placed top layer PWB under the products for keeping isolation between inside coil and surface of PWB. (Series DUST)

(2) To the opposing part in this power choke coil bottom please install neither pattern nor the beer, etc. (Series MC)

The opposing part in the choke coil bottom



③Parts arranged around this power choke coil do not touch the surface of this power choke coil (Top side and side). (Series MC)



④This power choke coil is different from the ferrite core-type that installs general concentration GAP. It has the leakage magnetic bunch distribution of the choke coil to the vertical direction. Please be cautious when using parts and circuit compositions which are easily affected by the leakage flux.

12. Other using emviroment

This power choke coil is not designed for the use in the following, special environment.

Therefore, please do not use it in the following special environment.

·Use in place where a lot of causticity gases such as sea breeze, Cl₂, H₂S, NH₃, SO₂, and NOx exist.

·Use in place where out-of-door exposure and direct sunshine strike.

13. Core Chipping and Core Crack

This choke coil has a possibility to make partial chipping or crack in the core due to excessive mechanical stress from outside, and might have initially a partial chipping and/or cracks that do not affect the quality.

14. Keeping environment

If this power choke coil is kept under following environment and condition, there is a possibility that the performance and soldering decreases greatly.

Keep in place where a lot of causticity gases such as sea breeze, Cl₂, H₂S, NH₃, SO₂, and NOx exist.

•Keep in place where out-of-door exposure and direct sunshine strike.

<Package markings>

Package markings include the product number, quantity, and country of origin. In principle, the country of origin should be indicated in English.

AEC-Q200 Compliant

The products are tested based on all or part of the test conditions and methods defined in AEC-Q200. Please consult with Panasonic for the details of the product specification and specific evaluation test results, etc., and please review and approve Panasonic's product specification before ordering.

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