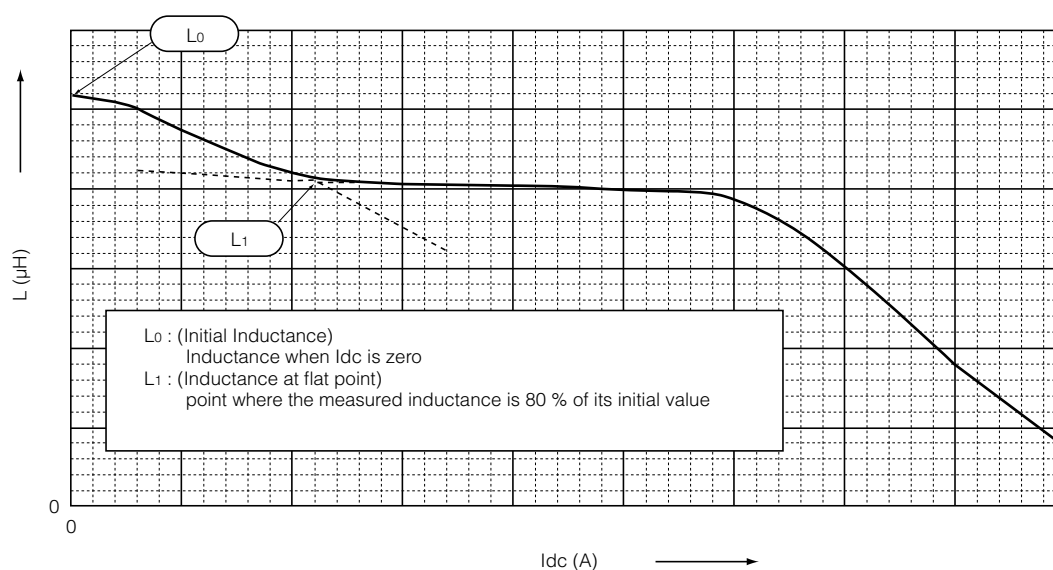
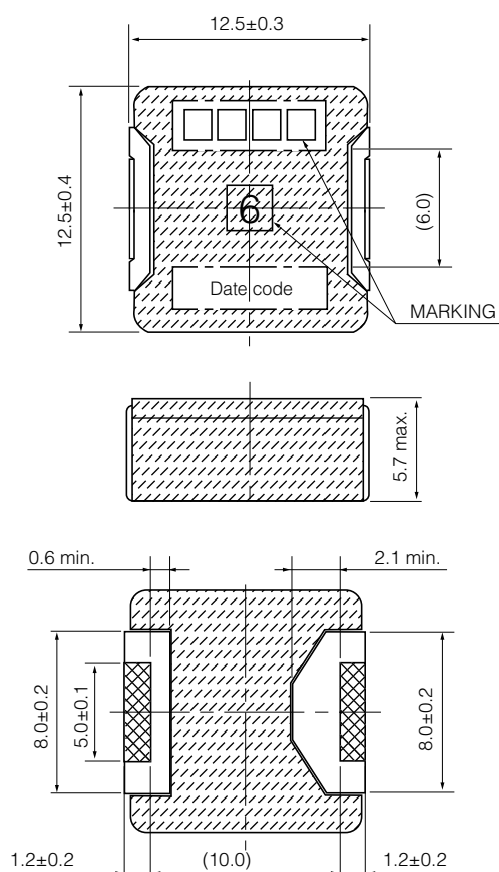


■ Figure 1: L_0, L_1 : Definition

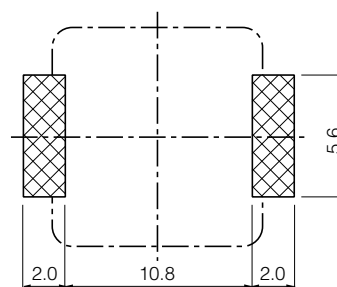
DC Bias Characteristic



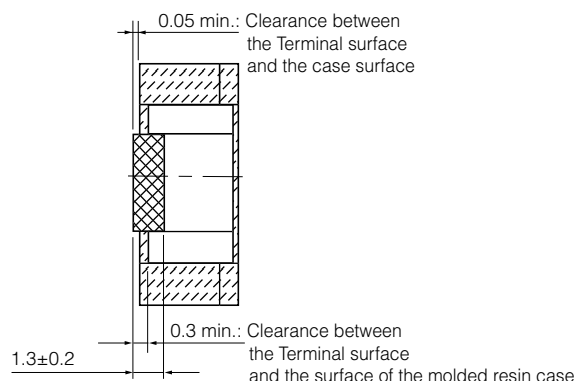
■ Figure 2: Dimensions in mm (not to scale)



■ Recommended Land Pattern in mm (not to scale)



() : Reference value

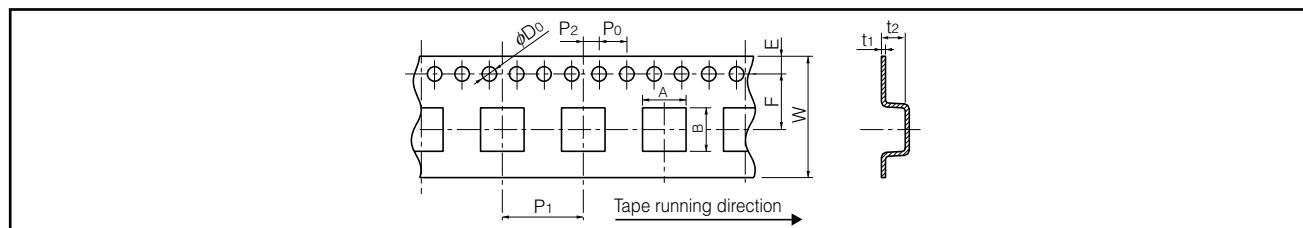


■ Packaging Methods, Soldering Conditions and Safety Precautions (Power Choke Coils for Consumer use)

Please see Data Files

■ Packaging Methods (Taping)

● Embossed Carrier Tape Dimensions in mm (not to scale)



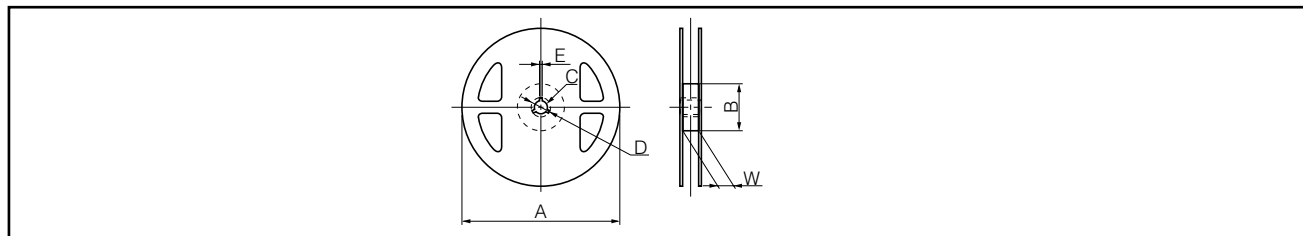
Power Choke Coils for high reliability use

Series	A	B	W	E	F	P ₁	P ₂	P ₀	φD ₀	t ₁	t ₂					
PCC-M0530M	5.6	6.1	16.0	1.75	7.5	12.0	2.0	4.0	1.5	0.4	3.3					
PCC-M0540M											4.3					
PCC-M0630M	7.1	6.6									3.3					
PCC-M0645M											5.0					
PCC-M0754M	8.1	7.6									6.0					
PCC-M0854M/M0850M	9.1	8.6									0.5					
PCC-M1054M/M1050M	10.7	11.9	24.0		11.5	16.0										
PCC-M1050ML/M1060ML																

Power Choke Coils for consumer use

Series	A	B	W	E	F	P ₁	P ₂	P ₀	φD ₀	t ₁	t ₂								
PCC-M0512W	5.6	5.85	12.0	1.75	5.5	8.0	2.0	4.0	1.5	0.4	1.4								
PCC-M0630L	7.1	8.0	16.0		7.5	12.0					3.2								
PCC-M0630W	7.2	7.5									3.3								
PCC-M0730L	7.6	8.9									4.2								
PCC-M074L	7.6	8.9									4.3								
PCC-M104W	10.6	11.0	24.0		11.5	16.0					5.2								
PCC-M104L	10.6	11.8									5.3								
PCC-M125L	13.1	14.8									5.2								
PCC-D124H	13.5	13.5									6.2								
PCC-D125H											6.0								
PCC-D126H	13.0	13.0									6.0								
PCC-D126F																			
PCC-F126F	13.0	13.0																	

● Taping Reel Dimensions in mm (not to scale)



Power Choke Coils for high reliability use

Series	A	B	C	D	E	W
PCC-M0530M/M0540M PCC-M0630M/M0645M PCC-M0754M PCC-M0854M/M0850M	330	100	13	21	2	17.5
PCC-M1054M/M1050M PCC-M1050ML/M1060ML						25.5

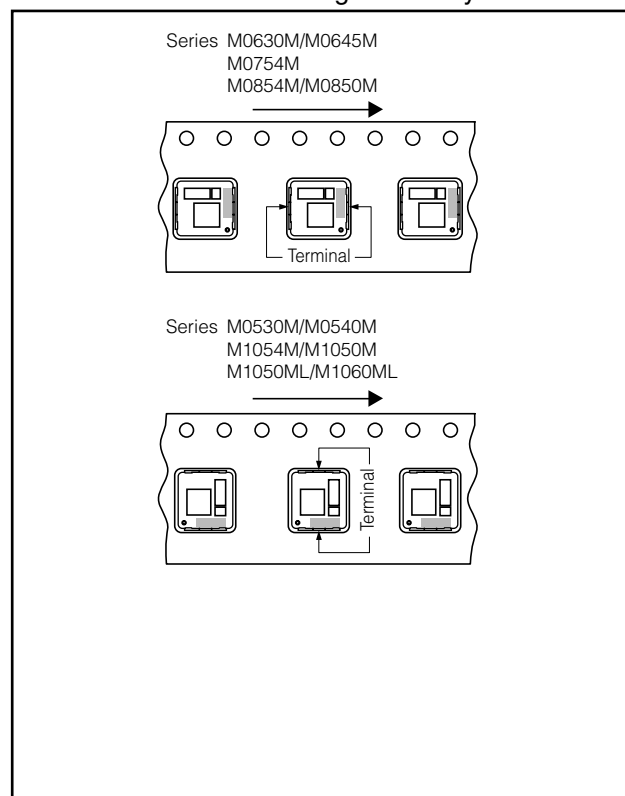
Power Choke Coils for consumer use

Series	A	B	C	D	E	W
PCC-M0512W	330	(80)	13	21	2	13.5
PCC-M0630L/M0630W		80				17.5
PCC-M104W						25.5
PCC-M0730L/M074L	380		80	13	21	2
PCC-M104L		25.4				
PCC-M125L/D124H/D125H/ D126H/D126F/F126F						

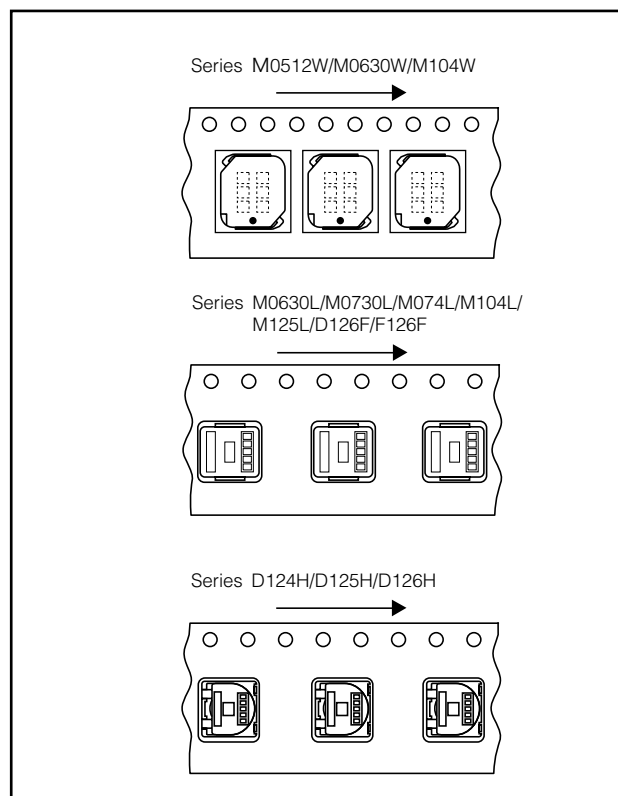
Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and/or use.
Should a safety concern arise regarding this product, please be sure to contact us immediately.

■ Component Placement (Taping)

● Power Choke Coils for high reliability use



● Power Choke Coils for consumer use



■ Standard Packing Quantity/Reel

● Power Choke Coils for high reliability use

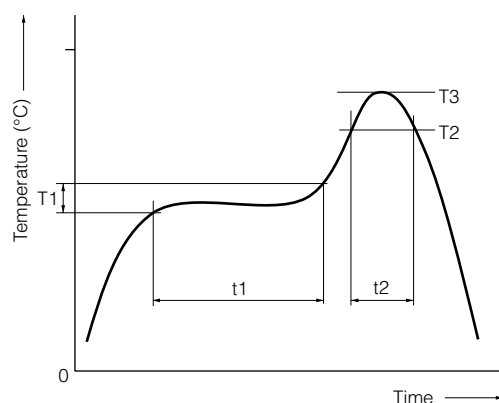
Series	Minimum Quantity / Packing Unit	Quantity per reel
PCC-M0530M/M0540M	2000 pcs. / box (2 reel)	1000 pcs.
PCC-M0630M		
PCC-M0645M	1000 pcs. / box (2 reel)	500 pcs.
PCC-M0754M		
PCC-M0854M/M0850M		
PCC-M1054M/M1050M		
PCC-M1050ML/M1060ML		

● Power Choke Coils for consumer use

Series	Minimum Quantity / Packing Unit	Quantity per reel
PCC-M0512W	6000 pcs. / box (2 reel)	3000 pcs.
PCC-M0730L	3000 pcs. / box (2 reel)	1500 pcs.
PCC-M074L		
PCC-M0630L	2000 pcs. / box (2 reel)	1000 pcs.
PCC-M0630W		
PCC-M104L		
PCC-M104W	1000 pcs. / box (2 reel)	500 pcs.
PCC-M125L		
PCC-D124H		
PCC-D125H		
PCC-D126H		
PCC-D126F		
PCC-F126F		

Soldering Conditions

■ Reflow soldering conditions



● Pb free solder recommended temperature profile Power Choke Coils for high reliability use

Series	Preheat		Soldering		Peak Temperature		Time of Reflow
	T1 [°C]	t1 [s]	T2 [°C]	t2 [s]	T3	T3 Limit	
PCC-D1413H PCC-M0530M/M0540M PCC-M0630M/M0645M PCC-M0754M PCC-M0854M/M0850M PCC-M1054M/M1050M PCC-M1050ML/M1060ML	150 to 170	60 to 120	230 °C	30 to 40	250 °C, 5 s	260 °C, 10 s	2 times max.

Power Choke Coils for consumer use

Series	Preheat		Soldering		Peak Temperature		Time of Reflow
	T1 [°C]	t1 [s]	T2 [°C]	t2 [s]	T3	T3 Limit	
PCC-M0512W PCC-M0630L PCC-M0630W PCC-M0730L PCC-M074L PCC-M104L PCC-M104W PCC-M125L PCC-D124H PCC-D125H PCC-D126H PCC-D126F PCC-F126F	150 to 170	60 to 120	230 °C	30 to 40	250 °C, 5 s	260 °C, 10 s	2 times max.

Safety Precautions

(Common precautions for Power Choke Coils for consumer use)

- 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.
- * 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 the 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. Detergent

Please consult our company in case of this because the confirmation of reliability etc. is needed when the washing is used for the power choke coil.

7. Storage temperature

-5 °C to +35 °C

8. Operating temperature

Minimum temperature : -40 °C(Ambient temperature of the power choke coil)

Maximum temperature : 130 °C(Ambient temperature of the power choke coil plus the temperature rise)

100 °C(Only series : PCC-F126F(N6))

9. Model

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

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

10. Drop

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

<Package markings>

Package markings include the product number, quantity, and country of origin.

In principle, the country of origin should be indicated in English.