Data Sheet

Customer:	
Product:	**Chip Common Mode Filter–PCM series**
Sizes.:	**7060 / 9070**
Issued Date:	**5-Feb-21**
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RoHS Compliant

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5-Feb-21	5-Feb-21	5-Feb-21	5-Feb-21	
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Chip Common Mode Filter



■Features

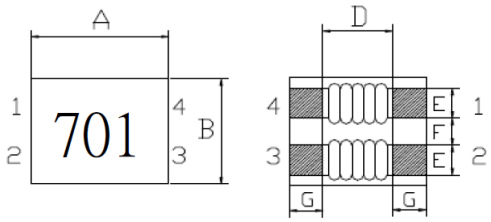
－Compatible with high-density portable devices, which are always being made smaller and lighter, because the height has been reduced.

■Applications

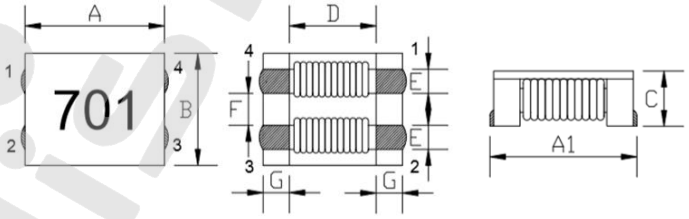
－Power Line Noise Countermeasure For Various Electronic Equipment

－Noise Countermeasure For Adapter Lines And Battery Lines Or Larger Electronic Equipment Such As Note Book PCs And Word Processors

■Dimensions



PCM7060



PCM9070

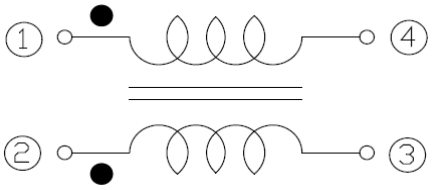
Unit : mm

Type	A	A1	B	C	D	E	F	G
PCM7060	7.00±0.50	-	6.00±0.20	3.80 max	3.50 typ	1.50±0.20	1.50±0.20	1.75±0.20
PCM9070	9.00±0.50	9.50±0.51	7.00±0.50	4.80 max	5.70 typ	1.50±0.20	2.00±0.20	1.70±0.20

■Part Numbering

PCM	7060	-	T	301
Product Type	Dimensions (AxBxC)	Impedance Tolerance	Packaging Code	Impedance
	7060: 7.0x6.0x3.8 9070: 9.0x7.0x4.8	-:No specified	T: Taping Reel	301: 300Ω

■Equivalent Circuit



Chip Common Mode Filter

■Electrical Specifications

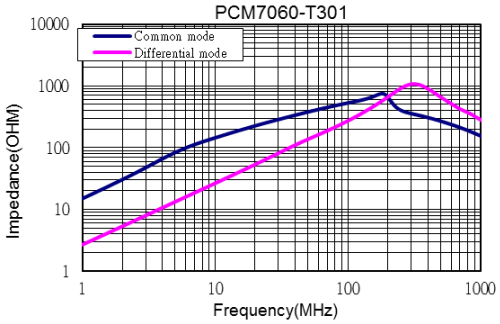
PCM7060 Type

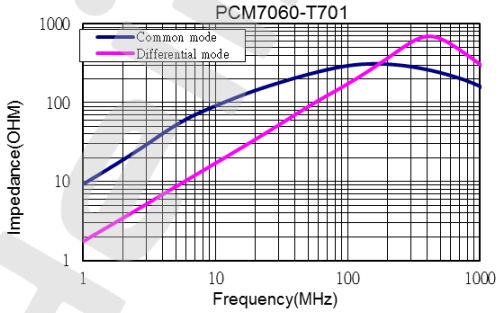
Part No.	Impedance (Ω)		Test Condition (MHz)	DCR (mΩ) max.	IDC (A) max.	Rated Voltage Vdc (V)	Insulation Resistance (MΩ) min.
	min.	typ.					
PCM7060-T301	225	300	100	10	5	125	10
PCM7060-T701	500	700	100	15	4	125	10
PCM7060-T102	800	1020	100	17	3	125	10

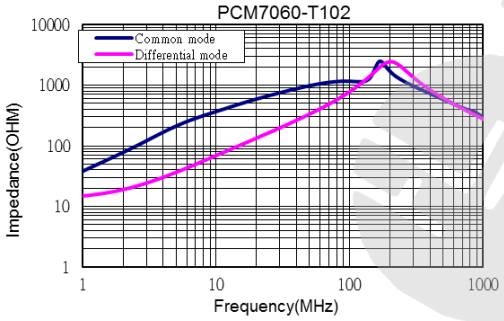
PCM9070 Type

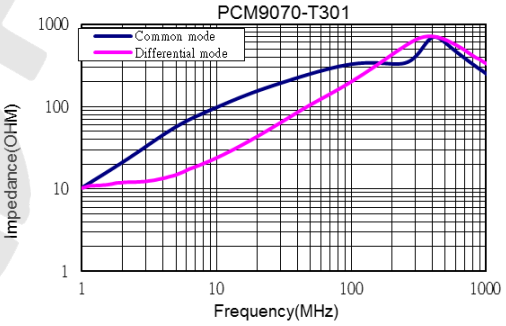
Part No.	Impedance (Ω)		Test Condition (MHz)	DCR (mΩ) max.	IDC (A) max.	Rated Voltage Vdc (V)	Insulation Resistance (MΩ) min.
	min.	typ.					
PCM9070-T301	225	300	100	6	6	80	10
PCM9070-T701	500	700	100	10	5	80	10
PCM9070-T102	750	1000	100	13	4	80	10

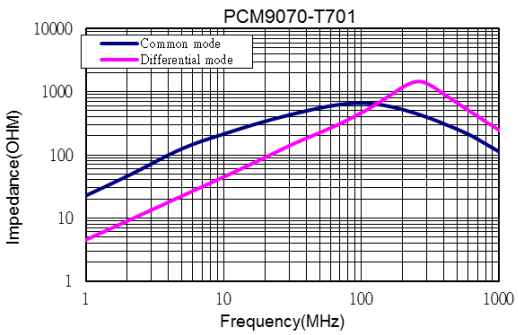
■Characteristics

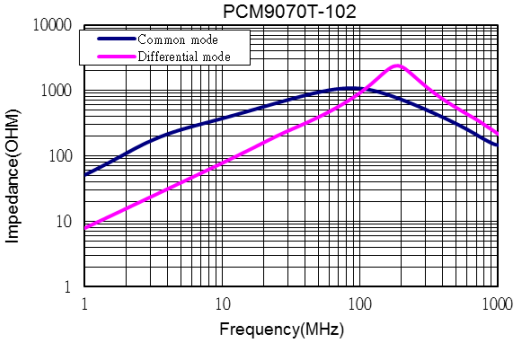










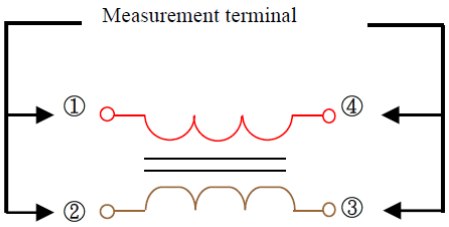


Test Equipment

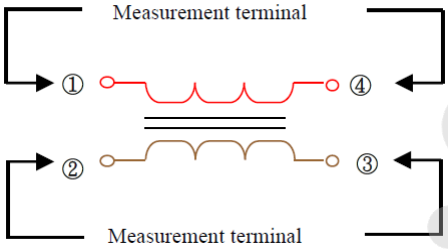
Impedance / Inductance

Measured by using Agilent E4991A RF Impedance Analyzer.

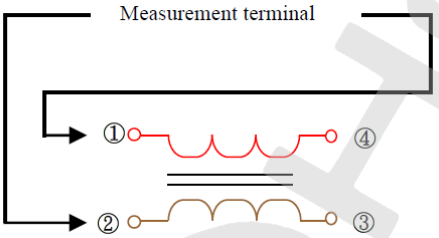
Measured by using Microtest 6377 LCR Meter.



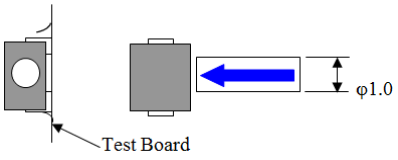
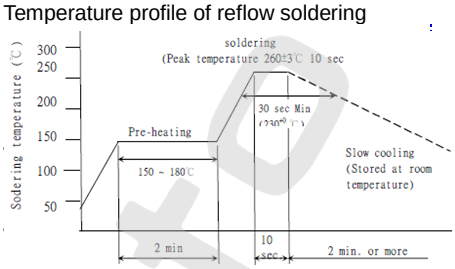
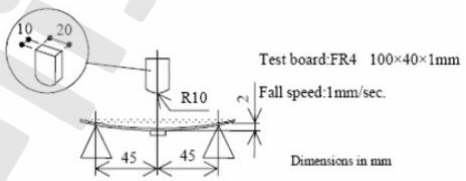
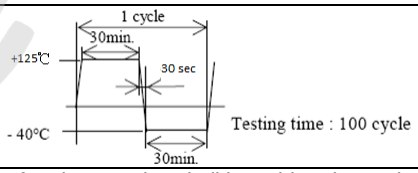
DC Resistance
Measured by using Chroma 16502 mill ohm meter.



Insulation Resistance
Measured by using Chroma 19073
Measurement voltage : 50v ,Measurement time : 60 sec

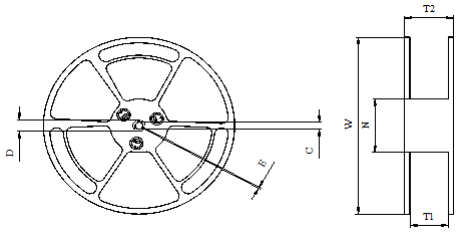


■Environmental Characteristics

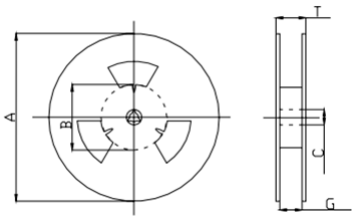
Items	Requirement	Test Conditions
Solderability	The product shall be connected to the test	Apply cream solder to the printed circuit board . circuit board by the fillet (the height is 0.2mm)
Terminal strength	The terminal electrode and the ferrite must not be damaged.	Solder a chip to test substrate , and then laterally apply a load 1.0Kg in the arrow direction. 
Resistance to Soldering heat (reflow soldering)	There shall be no damage or problems.	Temperature profile of reflow soldering  The specimen shall be passed through the reflow oven with the condition shown in the above profile for 1 time. The specimen shall be stored at standard atmospheric eric conditions for 1 hour, after which the measurement shall be made.
Strength on PC board bending	The terminal electrode and the ferrite must not damaged.	Solder a chip to test substrate and then apply a load. 
Thermal shock	Impedance:Within±20% of the initial value. Insulation resistance and DC resistance on the specification shall be met. The terminal electrode and the ferrite must not damaged.	
High temperature resistance		After the samples shall be soldered onto the test circuit board, the test shall be done. Measurement : After placing for 24 hours min. Temperature : +125±2℃ Applied voltage : Rated voltage Applied current : Rated current Testing time : 500±12 hours
Humidity resistance		After the samples shall be soldered onto the test circuit board, the test shall be done. Measurement : After placing for 24 hours min. Temperature : +60±2℃ , Humidity : 90 to 95 %RH Applied voltage : Rated voltage Applied current : Rated current Testing time : 500±12 hours
Low temperature storage		After the samples shall be soldered onto the test circuit board, the test shall be done. Measurement : After placing for 24 hours min. Temperature : -40±2℃ Testing time : 500±12 hours
Vibration		After the samples shall be soldered onto the test circuit board, the test shall be done. Frequency : 10 to 55 Hz
Solderability(for PCM7060)	New solder more than 75%	Flux (rosin, isoprophl alcohol) shall be coated over the whole of the sample before hard, the sample shall then be preheated for about 2 minutes in a temperature of 130~150℃ and after it has been immersed to a depth of 1.5mm below for 3±0.2 seconds fully in molten solder with a temperature of 245±2℃. More than 75% of the electrode sections shall be covered with new solder smoothly when the sample is taken out of the solder bath.

■Packaging

Packaging Quantity & Reel Specifications



PCM7060

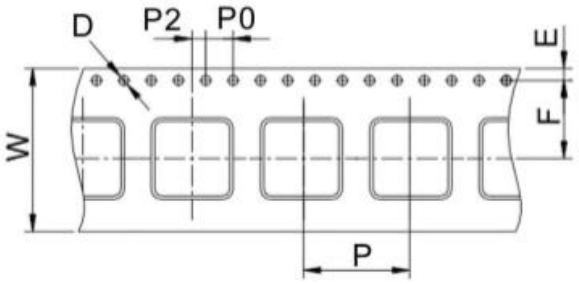


PCM9070

Unit: mm

Type	W	D	C	T1	N	T2	E	Quantity (EA)
PCM7060	330±1.5	21.5+0.5/-0	13+0.5/-0.2	12.5+0.5/-0	100±1.5	16.9±0.4	2.0±0.5	1500
PCM9070	330±1.5	21.5+0.5/-0	20.4+0.5/-0.2	24.5+0.5/-0	100±1.5	28.9±0.4	2.0±0.5	700

Embossed Plastic Tape Specifications



Unit: mm

Type	W	D	E	F	P	P0	P2
PCM7060	16±0.2	1.5	1.75±0.1	7.5±0.1	12	4±0.1	2±0.1
PCM9070	24±0.2	1.5	1.75±0.1	11.5±0.1	16	4±0.1	2.02±0.1