

FEATURES

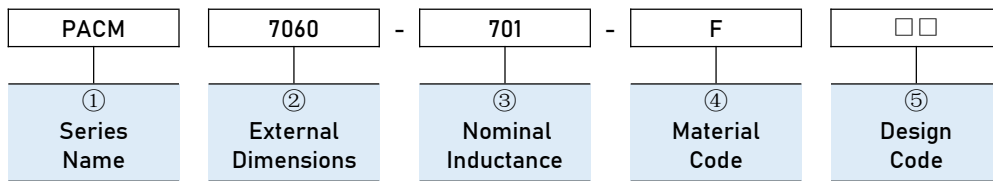
- Chip-type common mode filter for large current applications.
- Smaller size and low profile.
- Ideal for noise suppressed.
- Operating Temperature: -40°C~+125°C .



APPLICATIONS

- Network Interface, Household Appliances, LED Lighting, Power, etc.
- Used for power line noise suppression for any electronic devices.

PART NUMBERING



① Series Name	
PACM	Wire Wound Chip Common Mode Choke

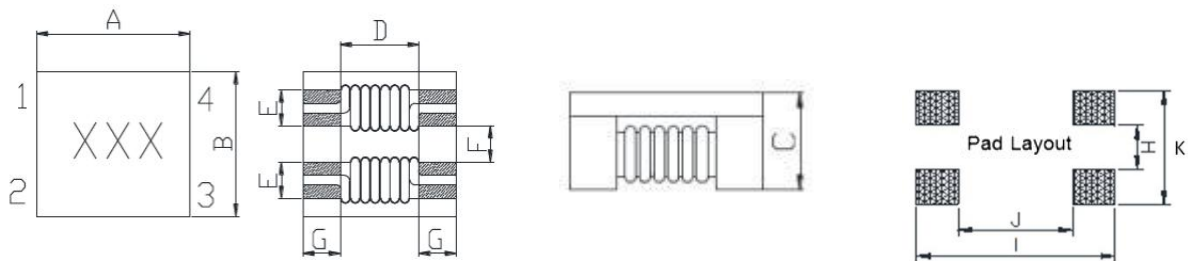
② External Dimensions (L×W×H)(mm)	
4520	4.7×4.5×2.0
5040	5.0×5.0×4.5
7060	7.0×6.0×3.8
8080	8.0×8.0×5.0
9070	9.0×7.0×4.8
1211	12.5×10.8×6.4
1513	15.0×13.0×6.0

③ Nominal Impedance	
Code (example)	Nominal Impedance [Ω]
900	90
701	700
102	1000

④ Material Code	
F	F Type
CL	CL Type
FC	FC Type
M	M Type
AM	AM Type

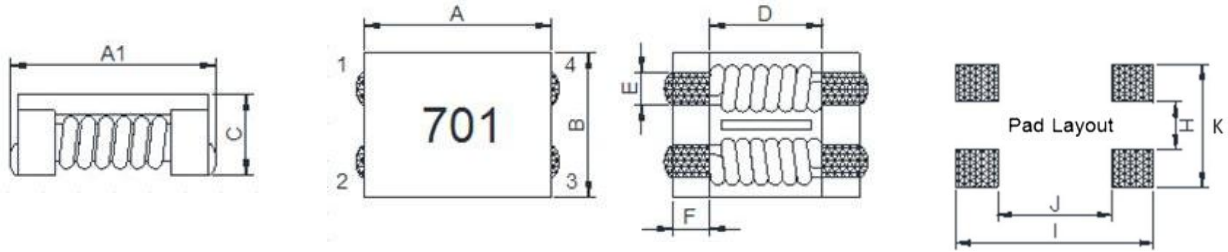
⑤ Design Code	
□ □	Standard product is blank

DIMENSIONS & RECOMMENDED LAND PATTERN



Series	Dimensions							Recommended Land Pattern			
	A	B	C	D	E	F	G	K Typ.	H Typ.	I Typ.	J Typ.
PACM4520-F	4.7±0.5	4.5±0.5	2.2 Max.	2.7 Typ.	0.8 Typ.	1.25 Typ.	1.0 Typ.	3	1	6	2
PACM4520-M	4.7±0.5	4.5±0.5	2.0 Max.	2.7 Typ.	0.8 Typ.	1.25 Typ.	1.0 Typ.	3	1	6	2

DIMENSIONS & RECOMMENDED LAND PATTERN



Unit: mm

Series	Dimensions							Recommended Land Pattern			
	A	A1	B	C	D	E	F	K Typ.	H Typ.	I Typ.	J Typ.
PACM7060-F	7.0±0.5	7.5±0.5	6.0±0.5	3.8 Max.	3.5 Typ.	1.5 Typ.	1.7 Typ.	5	1.5	8	3
PACM7060-M	7.0±0.5	7.5±0.5	6.0±0.5	3.8 Max.	3.5 Typ.	1.5 Typ.	1.7 Typ.	5	1.5	8	3
PACM7060-FC	7.0±0.5	7.5±0.5	6.0±0.5	4.1±0.3	3.5 Typ.	1.5 Typ.	1.7 Typ.	5	1.5	8	3
PACM8080-CL	8.0±0.5	8.5±0.5	8.0±0.5	5.0±0.3	5.2±0.3	1.5±0.2	1.5±0.2	7	2.5	9	4
PACM9070-F	9.0±0.5	9.5±0.5	7.0±0.5	4.8 Max.	5.6 Typ.	1.5 Typ.	1.7 Typ.	5.5	1.5	10.5	5
PACM9070-M	9.0±0.5	9.5±0.5	7.0±0.5	4.8 Max.	5.6 Typ.	1.5 Typ.	1.7 Typ.	5.5	1.5	10.5	5
PACM9070-AM	9.0±0.5	9.5±0.5	7.0±0.5	6.7 Max.	5.7 Typ.	1.5±0.2	2.0±0.2	5.5	1.5	10.5	5
PACM1211-F	12.0±0.5	12.5±0.5	10.8±0.5	6.4 Max.	7.0 Typ.	2.7 Typ.	2.5 Typ.	8.5	2	12.5	6.5
PACM1211-M	12.0±0.5	12.5±0.5	10.8±0.5	6.4 Max.	7.0 Typ.	2.7 Typ.	2.5 Typ.	8.5	2	12.5	6.5
PACM1211-AM	12.0±0.5	12.5±0.5	10.8±0.5	8.5 Max.	7.0 Typ.	2.7 Typ.	2.5 Typ.	8.5	2	12.5	6.5
PACM1513-F	15.0±0.5	15.3±0.5	13.0±0.5	6.0 Max.	9.0 Typ.	2.7 Typ.	3.0 Typ.	9.5	3.3	16	8

ELECTRICAL CHARACTERISTICS

● PACM4520 Series

Part Number	Common mode Impedance @100MHz		DC Resistance Max.	Heat Rating Current Max.	Rated Voltage	Insulation Resistance Min.	Marking
Units	Ω		mΩ	A	Volts	MΩ	-
Symbol	Z Min.	Z Typ.	DCR	I _{rms}	VDC	IR	-
PACM4520-900-M	60	90	35	3.2	50	10	900
PACM4520-151-M	90	150	40	3.1	50	10	151
PACM4520-231-M	180	230	45	3.0	50	10	231
PACM4520-301-M	200	300	45	3.0	50	10	301
PACM4520-421-M	300	420	50	2.5	50	10	401
PACM4520-701-M	500	700	59	2.2	50	10	701
PACM4520-901-M	650	900	68	2.1	50	10	901
PACM4520-102-M	800	1000	68	2.1	50	10	102
PACM4520-122-M	1000	1200	74	2.0	50	10	122
PACM4520-142-M	1200	1400	81	1.9	50	10	142
PACM4520-900-F	60	90	35	3.2	50	10	900
PACM4520-151-F	90	150	40	3.1	50	10	151
PACM4520-231-F	180	230	45	3.0	50	10	231
PACM4520-301-F	200	300	45	3.0	50	10	301
PACM4520-421-F	300	420	50	2.5	50	10	401
PACM4520-701-F	500	700	59	2.2	50	10	701
PACM4520-901-F	650	900	68	2.1	50	10	901
PACM4520-102-F	800	1000	68	2.1	50	10	102
PACM4520-122-F	1000	1200	74	2.0	50	10	122
PACM4520-142-F	1200	1400	81	1.9	50	10	142

ELECTRICAL CHARACTERISTICS

● PACM7060 Series

Part Number	Common mode Impedance @100MHz		DC Resistance Max.	Heat Rating Current Max.	Rated Voltage	Insulation Resistance Min.	Marking
Units	Ω		m Ω	A	Volts	M Ω	-
Symbol	Z Min.	Z Typ.	DCR	I _{rms}	VDC	IR	-
PACM7060-400-M	40	70	5	15.0	125	10	400
PACM7060-101-M	100	140	10	9.0	125	10	101
PACM7060-301-M	225	300	10	5.0	125	10	301
PACM7060-501-M	275	450	10	5.0	125	10	501
PACM7060-601-M	500	700	15	4.0	125	10	601
PACM7060-701-M	500	700	15	4.0	125	10	701
PACM7060-102-M	800	1020	17	3.0	125	10	102
PACM7060-132-M	910	1300	21	2.5	125	10	132
PACM7060-272-M	2000	2700	63	1.0	125	10	272
PACM7060-302-M	2500	3000	75	0.9	125	10	302
PACM7060-400-F	40	70	5	15.0	125	10	400
PACM7060-101-F	100	140	10	9.0	125	10	101
PACM7060-301-F	225	300	10	5.0	125	10	301
PACM7060-501-F	275	450	10	5.0	125	10	501
PACM7060-601-F	500	700	15	4.0	125	10	601
PACM7060-701-F	500	700	15	4.0	125	10	701
PACM7060-102-F	800	1020	17	3.0	125	10	102
PACM7060-132-F	910	1300	21	2.5	125	10	132
PACM7060-272-F	2000	2700	63	1.0	125	10	272
PACM7060-302-F	2500	3000	75	0.9	125	10	302
PACM7060-701-FC	500	700	15	4.0	50	10	701
PACM7060-102-FC	800	1500	17	3.0	50	10	102

● PACM8080 Series

Part Number	Common mode Impedance @100MHz		DC Resistance Max.	Heat Rating Current Max.	Rated Voltage	Insulation Resistance Min.	Marking
Units	Ω		m Ω	A	Volts	M Ω	-
Symbol	Z Min.	Z Typ.	DCR	I _{rms}	VDC	IR	-
PACM8080-301-CL	200	300	6	7.0	80	10	301
PACM8080-501-CL	400	600	8	6.0	80	10	501
PACM8080-701-CL	500	700	10	5.5	80	10	701
PACM8080-102-CL	750	1000	15	4.5	80	10	102
PACM8080-152-CL	1200	1500	20	3.5	80	10	152
PACM8080-222-CL	1700	2200	40	3.2	80	10	222
PACM8080-272-CL	2000	2700	60	2.5	80	10	272
PACM8080-302-CL	2500	3000	80	2.2	80	10	302

● PACM9070 Series

Part Number	Common mode Impedance @100MHz		DC Resistance Max.	Heat Rating Current Max.	Rated Voltage	Insulation Resistance Min.	Marking
Units	Ω		m Ω	A	Volts	M Ω	-
Symbol	Z Min.	Z Typ.	DCR	I _{rms}	VDC	IR	-
PACM9070-301-M	225	300	6	6.0	80	10	301
PACM9070-501-M	450	600	8	5.5	80	10	501
PACM9070-701-M	500	700	10	5.0	80	10	701
PACM9070-102-M	750	1000	13	4.0	80	10	102
PACM9070-222-M	1700	2200	50	3.0	80	10	222
PACM9070-272-M	2000	2700	80	2.0	80	10	272
PACM9070-302-M	2500	3000	80	2.0	80	10	302

ELECTRICAL CHARACTERISTICS

● PACM9070 Series

Part Number	Common mode Impedance @100MHz		DC Resistance Max.	Heat Rating Current Max.	Rated Voltage	Insulation Resistance Min.	Marking
Units	Ω		mΩ	A	Volts	MΩ	-
Symbol	Z Min.	Z Typ.	DCR	I _{rms}	VDC	IR	-
PACM9070-301-F	225	300	6	6.0	80	10	301
PACM9070-501-F	450	600	8	5.5	80	10	501
PACM9070-701-F	500	700	10	5.0	80	10	701
PACM9070-102-F	750	1000	13	4.0	80	10	102
PACM9070-222-F	1700	2200	50	3.0	80	10	222
PACM9070-272-F	2000	2700	80	2.0	80	10	272
PACM9070-302-F	2500	3000	80	2.0	80	10	302
PACM9070-152-AM	600	1500	50	3.0	50	10	152
PACM9070-322-AM	2200	3200	125	2.0	50	10	322

● PACM1211 Series

Part Number	Common mode Impedance @100MHz		DC Resistance Max.	Heat Rating Current Max.	Rated Voltage	Insulation Resistance Min.	Marking
Units	Ω		mΩ	A	Volts	MΩ	-
Symbol	Z Min.	Z Typ.	DCR	I _{rms}	VDC	IR	-
PACM1211-800-M	80	230	2	10.0	125	10	800
PACM1211-301-M	200	300	4	9.0	125	10	301
PACM1211-501-M	300	500	6	8.0	125	10	501
PACM1211-701-M	500	700	6	8.0	125	10	701
PACM1211-801-M	600	800	8	8.0	125	10	801
PACM1211-102-M	750	1000	14	6.0	125	10	102
PACM1211-222-M	2200	2500	35	1.8	125	10	222
PACM1211-272-M	2300	2700	50	1.5	125	10	272
PACM1211-800-F	80	230	2	10.0	125	10	800
PACM1211-301-F	200	300	4	9.0	125	10	301
PACM1211-501-F	300	500	6	8.0	125	10	501
PACM1211-701-F	500	700	6	8.0	125	10	701
PACM1211-801-F	600	800	8	8.0	125	10	801
PACM1211-102-F	750	1000	14	6.0	125	10	102
PACM1211-222-F	2200	2500	35	1.8	125	10	222
PACM1211-272-F	2300	2700	50	1.5	125	10	272
PACM1211-172-AM	1100	1700	26	5.5	125	10	172
PACM1211-202-AM	1300	2000	33	4.5	125	10	202
PACM1211-222-AM	1400	2200	43	4.0	125	10	222
PACM1211-532-AM	3700	5300	109	2.5	125	10	532
PACM1211-782-AM	5400	7800	182	2.0	125	10	782

● PACM1513 Series

Part Number	Common mode Impedance @100MHz		DC Resistance Max.	Heat Rating Current Max.	Rated Voltage	Insulation Resistance Min.	Marking
Units	Ω		mΩ	A	Volts	MΩ	-
Symbol	Z Min.	Z Typ.	DCR	I _{rms}	VDC	IR	-
PACM1513-301-M	250	300	5	13.0	80	10	301
PACM1513-551-M	450	550	6	10.0	80	10	551
PACM1513-601-M	500	600	7	10.0	80	10	601
PACM1513-701-M	500	700	7	10.0	80	10	701
PACM1513-102-M	800	1000	12	10.0	80	10	102
PACM1513-301-F	250	300	5	13.0	80	10	301
PACM1513-551-F	450	550	6	10.0	80	10	551

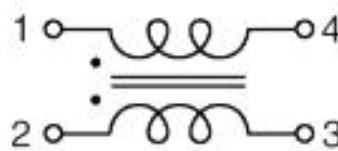
ELECTRICAL CHARACTERISTICS

● PACM1513 Series

Part Number	Common mode Impedance @100MHz		DC Resistance Max.	Heat Rating Current Max.	Rated Voltage	Insulation Resistance Min.	Marking
	Units	Ω					
Symbol	Z Min.	Z Typ.	DCR	I _{rms}	VDC	IR	-
PACM1513-601-F	500	600	7	10.0	80	10	601
PACM1513-701-F	500	700	7	10.0	80	10	701
PACM1513-102-F	800	1000	12	10.0	80	10	102

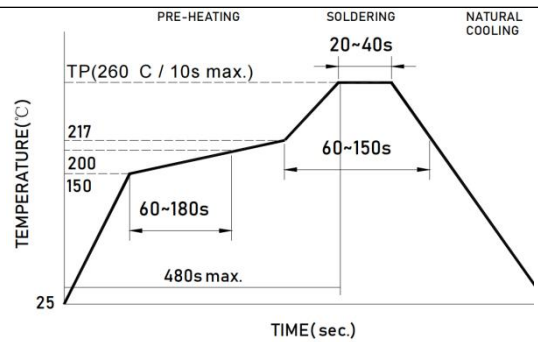
- Rated Current: Temp.rise 40 °C Typ
- Operating Temperature: -40 °C up to +125 °C
- Storage Temperature: -40 °C up to +125 °C, 75% RH max.

EQUIVALENT CIRCUIT

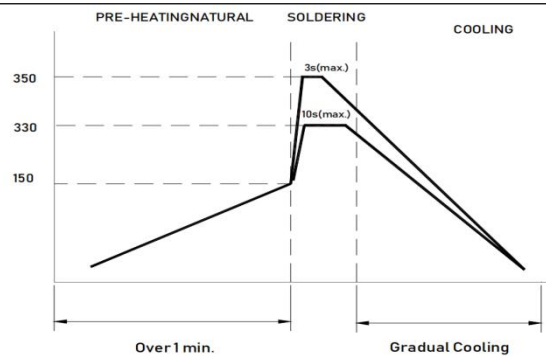


SOLDERING CONDITIONS

- Preheat circuit and products to 150 °C
- 260 °C tip temperature (max)
- Reflow times: no more than 2 times
- Solder paste thickness: the best 0.08mm is, but max is 0.1mm



- Use a 20 watt soldering iron with tip diameter of 1.0mm
- Limit soldering time to 3 sec.



Note:

This series product is not applies in automotive or related products. Otherwise, we will shall not bear than the resulting all the problems of quality and responsibility.

Please be sure to request approval specifications that provide further details of the products. Kindly not that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without APV approval.