



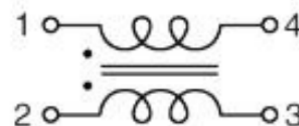
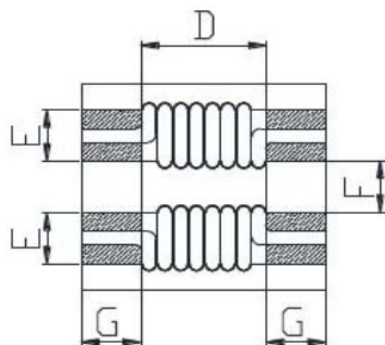
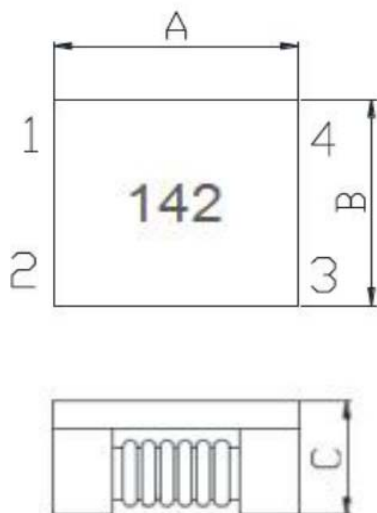
SMD Power Line Common Mode Choke

ACM4520M-Series

ACM4520M type

ACM4520M [1808 inch]

◆ SHAPE & DIMENSIONS



ACM4520M	Dimensions
A	4.7 ± 0.5
B	4.5 ± 0.5
C	2.0 max
D	2.70 typ
E	0.80 Typ
F	1.25 Typ
G	1.0 typ

UNIT:mm

◆ PART NUMBER CONSTRUCTION

ACM	4520	M	—	900	—	2P	—	T
Series name	L*W*T Dimensions (mm)	Impedance Tolerance		Impedance (Ω)at100MHz		Number Of Line		Taping
Common Mode Choke	4.7*4.5*2.0	± 20%		90		2P 2lines		
				150				
				230				
				300				
				420				
				700				
				900				
				1000				
				1200				
				1400				

◆ OPERATING TEMPERATURE RANGE, PACKAGE QUANTITY.

Type	Temperature range		Reel Dimensions (mm)	Package quantity (pieces/reel)
	Operating Temperature °C	Storage Temperature °C (75% RH max)		
ACM4520M-Series	-40 to +125	-20 to +40	ø178	1,000



◆ ELECTRICAL CHARACTERISTICS

Impedance 100MHz DC (Ω)		Resistance (m Ω) max.	Rated Voltage (V) max.	Insulation Resistance (M Ω)min.	Rated Current (A)max.	MARK	Part No.
Min	Typ						
60	90	35	50	10	2.0	900	ACM4520M-900-2P-T
90	150	40	50	10	1.9	151	ACM4520M-151-2P-T
180	230	45	50	10	1.8	231	ACM4520M-231-2P-T
200	300	45	50	10	1.7	301	ACM4520M-301-2P-T
300	420	50	50	10	1.5	421	ACM4520M-421-2P-T
500	700	59	50	10	1.4	701	ACM4520M-701-2P-T
650	900	68	50	10	1.3	901	ACM4520M-901-2P-T
800	1000	68	50	10	1.3	102	ACM4520M-102-2P-T
1000	1200	74	50	10	1.2	122	ACM4520M-122-2P-T
1200	1400	81	50	10	1.2	142	ACM4520M-142-2P-T

◆ Measurement Equipment

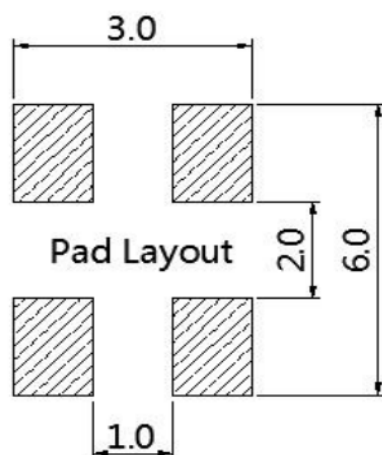
Measurement Item	Meter	Manufacturer
Common Mode Impedance	4287A	Agilent
DC Resistance	16502	Chroma
Insulation Resistance	4339B	Agilent / Chroma

※Rated Current: Temp.rise 40°C Typ

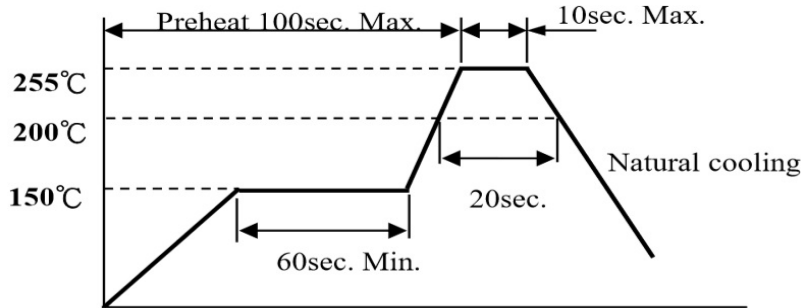
※Marking black words

※Marking Damaged area less than 0.3mm is allowed

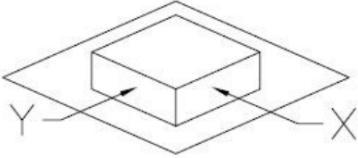
◆ Recommended Soldering Conditions (Please use this product by reflow soldering)



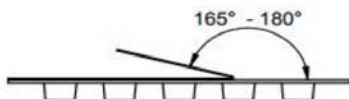
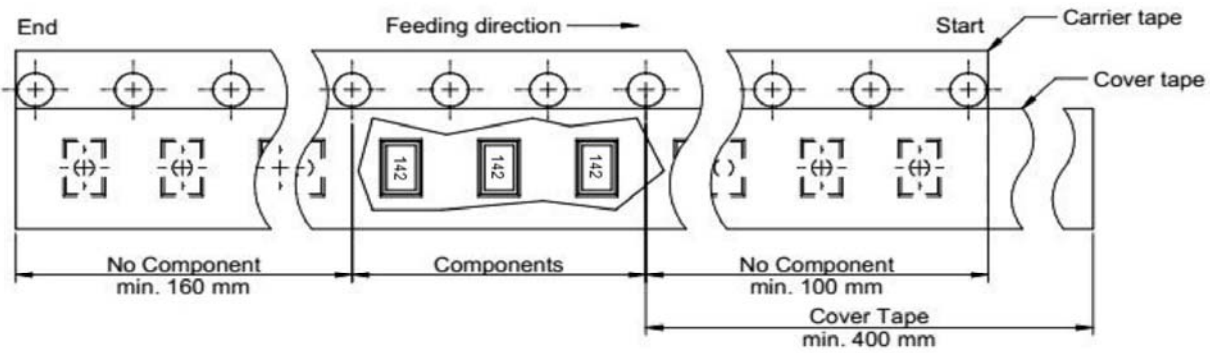
◆ RECOMMENDED REFLOW PROFILE



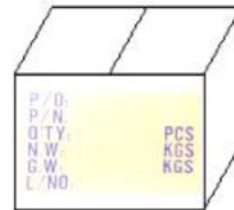
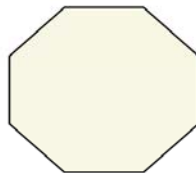
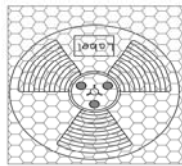
◆ MECHANICAL RELIABILITY

Operating Temperature	-40 to +125°C (Contain Heating coil)
Appearance Inspection	No external defects by visual inspection
Terminal Strength	 <p>After soldering , between copper plaet and terminals of coils , push in two directions of X , Y with standing 1 0N(1 .02kg) for1 0+/-2 sec. Terminal should not peel off. (Refer to figure at right)</p>
Heat endurance of reflow soldering	Refer to figure
Insulating resistance	Over 1 00 MΩ at 1 00V D.C .between wire and core
Dielectric Strength	Apply at 0.5KV 3mA for 1 minute between wire and core
Temperature characteristics	Inductance coefficient (0~2,000) × 1 0 / °C (- 40~ + 1 25 °C)
Humidity characteristics	Inductance deviation within ± 1 0% , after 96 hours in 90~95% relative humidity at 40 ± 2 °C and 1 hours drying under normal condition
A test is made under the above mentioned condition , and it is kept for 2 hours in the normal	

◆ Reel Dimension & Tape Dimension



Tape width	Distance	Pull-of force
12 mm	8 mm	10~120g



Reel: 7'(Ø178mm)
1000pcs/Reel

PE Bag
4000pcs/bag

Inside Box
4000pcs/Box

Out Side Box
40,000pcs/Box