

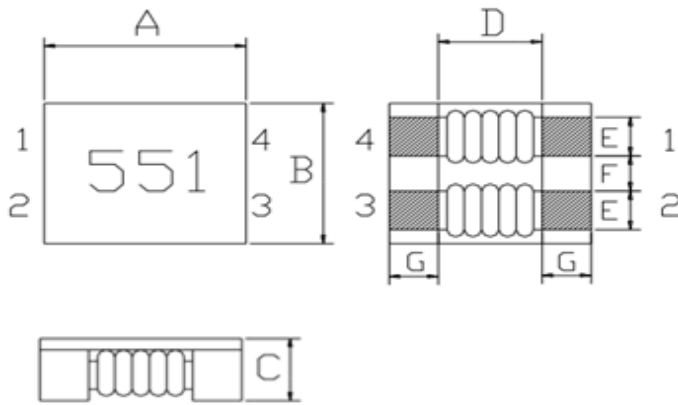
SMD Power Line Common Mode Choke

ACM1513M-Series

ACM1513M type

ACM1513M [5951 inch]

◆ SHAPE & DIMENSIONS



ACM1513M	Dimensions
A	15.0 ± 0.5
B	13.0 ± 0.4
C	6.2 max
D	9.0 Typ
E	2.7 ± 0.5
F	3.8 ± 0.5
G	3.0 ± 0.5

UNIT:mm

◆ PART NUMBER CONSTRUCTION

ACM	1513	M	551	2P	T
Series name	L*W*T Dimensions (mm)	Impedance Tolerance	Impedance (Ω)at100MHz	Number Of Line	Taping
Common Mode Choke	15.0*13.0*6.2	± 20%	550 600 600H	2P 2lines	

◆ OPERATING TEMPERATURE RANGE, PACKAGE QUANTITY.

Type	Temperature range		Reel Dimensions (mm)	Package quantity (pieces/reel)
	Operating Temperature °C	Storage Temperature °C (75% RH max)		
ACM1513M-Series	-40 to +125	-20 to +40	ø330	350

ACM1513M-Series (General differential Power Line)

2017/11/1

◆ ELECTRICAL CHARACTERISTICS

Impedance 100MHz (Ω) Min	DC Resistance Typ (mΩ)	DC Resistance max. (mΩ)	Rated Voltage (VAC) max.	Insulation Resistance (MΩ) min.	Rated Current (A) max.	MARK	Part No.
450	550	7.5	500(3mA/3s)	10	10.0	551	ACM1513M-551-2P-T
600	800	6	500(3mA/3s)	10	9.5	601	ACM1513M-601-2P-T
600	800	5	500(3mA/3s)	10	11.0	N/A	ACM1513M-601-H-2P-T

◆ Measurement Equipment

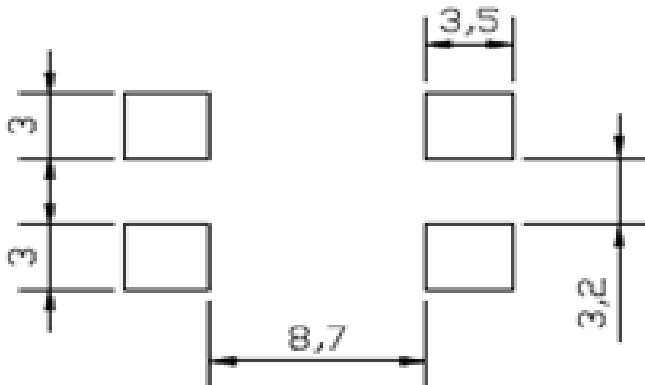
Measurement Item	Meter	Manufacturer
Common Mode Impedance	4287A	Agilent
DC Resistance	16502	Chroma
Insulation Resistance	4339B	Agilent / Chroma

※Rated Current: Temp.rise 40°C Typ

※Marking black words

※Marking Damaged area less than 0.3mm is allowed

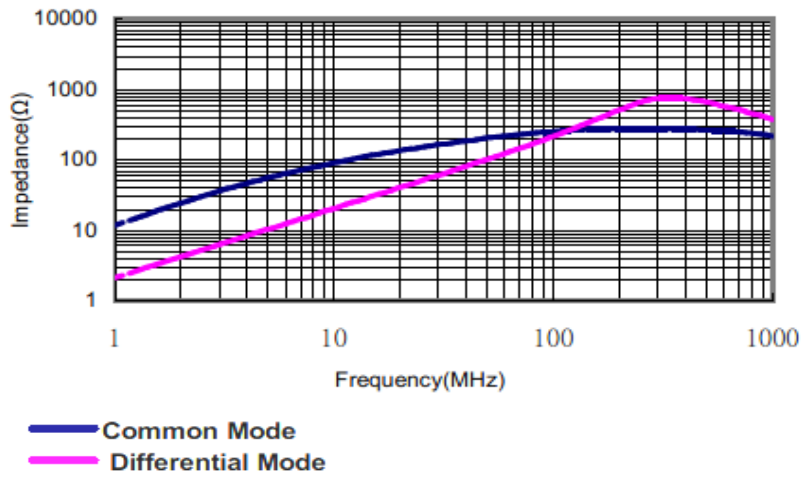
◆ Recommended Soldering Conditions (Please use this product by reflow soldering)





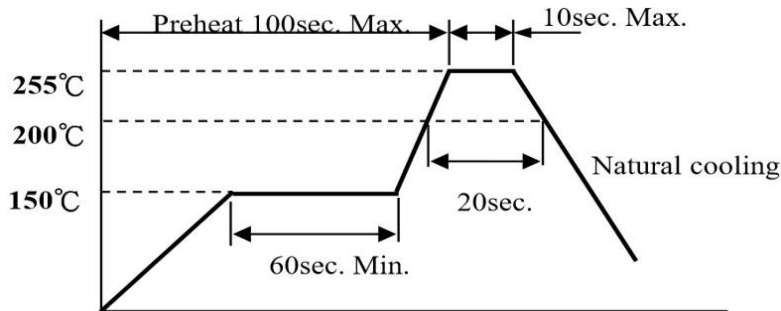
◆CHARACTERISTICS(REFERENCE)

ACM1513M-(551/601)-2P-T

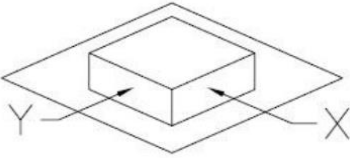


◆ RECOMMENDED REFLOW PROFILE

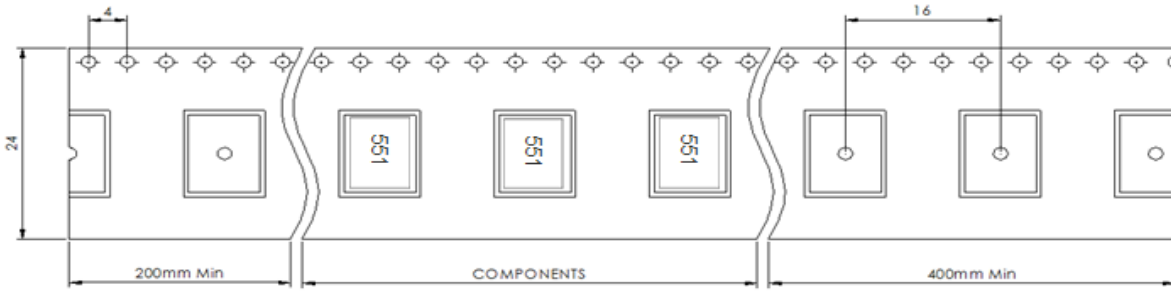
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◆ MECHANICAL RELIABILITY

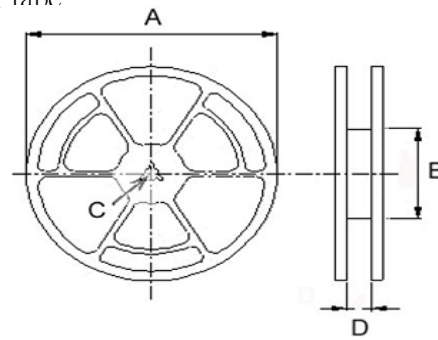
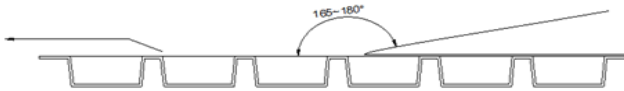
Operating Temperature	-40 to +125 (Contain Heating coil)
Appearance Inspection	No external defects by visual inspection
Terminal Strength	 <p>After soldering , between copper plaet and terminals of coils , push in two directions of X , Y with standing 1 ON(1 .02kg) for1 0+/-2 sec. Terminal should not 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
<p>A test is made under the above mentioned condition , and it is kept for 2 hours in the normal</p>	

◆ Reel Dimension & Tape Dimension

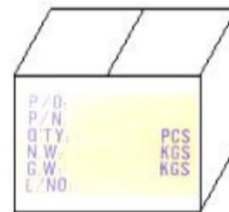
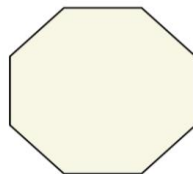
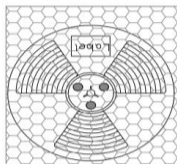
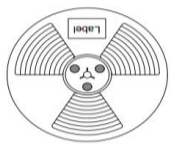


Transparent carrier and cover tape

Adhesive strength of cover tape is 20 to 120 gf
The conduction band direction



Reel Dimensions (Unit: mm)				Quantity
A	B	C	D	Pcs/Reel
330	100	13	24.5	350



Reel: 13' (Ø330mm)
350pcs/Reel

PE Bag
350pcs/bag

Inside Box
700pcs/Box

Out Side Box
3,500pcs/Box