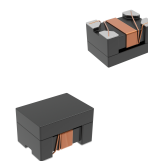


FEATURES

- Winding type realizes small size and low profile
- Prevention of common mode noise at high frequency
- Excellent solderability
- Operating temperature -40~+125℃ (Including self - temperature rise)



APPLICATIONS

- USB2.0 of PC, peripheral equipments, small digital AV equipments, etc.
- LVDS lines of Note PC, LCD
- Audio lines

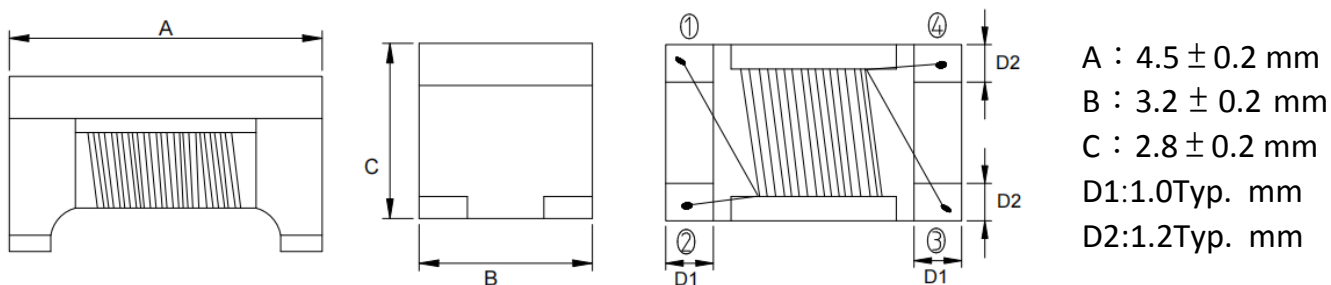
Explanation of Part Number

ACM 4532-2P - 900 T F

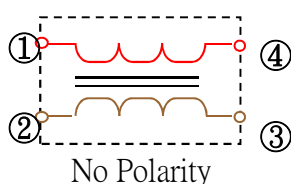
1 2 3 4 5 6

- ◆ 1:Product Series:Wire Wound Chip Common Mode Filters
- ◆ 2:Dimensions:
- ◆ 3: Number of Lines 2P=2 lines
- ◆ 4:Common Mode Impedance(Ω)
- ◆ 5:Packing(Tape & Reel)
- ◆ 6:F:Hazardous Substance Free Products

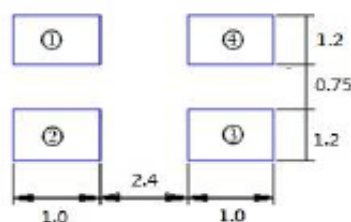
Shapes and Dimensions [mm]



Equivalent circuit



Land Pattern: [mm]

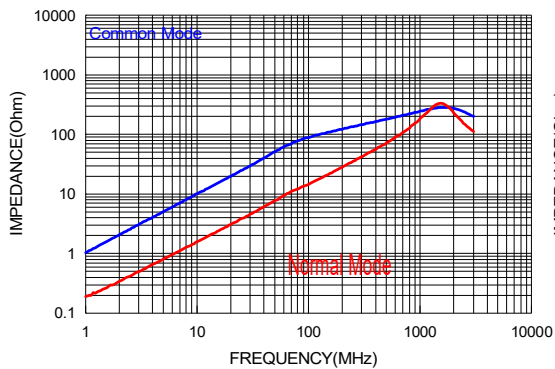


Electrical Characteristics:

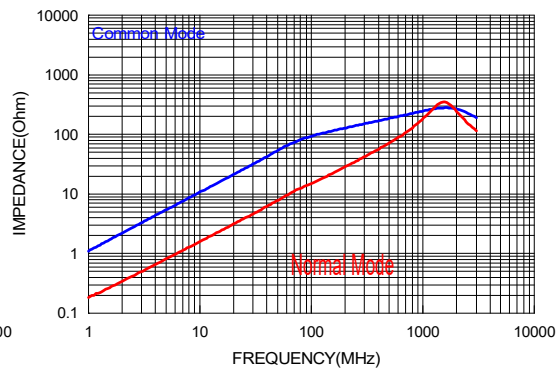
Part Number	Common mode Impedance (Ω)	Test Frequency (MHz)	DC Resistance (Ω) max.	Rated Current (mA) max.	Rated Volt. (Vdc) max.	Withstand Volt. (Vdc) max.	IR (Ω) min.
ACM4532-2P-800TF	80 $\pm$ 25%	100	0.05	3000	50	125	10M
ACM4532-2P-900TF	90 $\pm$ 25%	100	0.05	3000	50	125	10M
ACM4532-2P-121TF	120 $\pm$ 25%	100	0.05	3000	50	125	10M
ACM4532-2P-201TF	200 $\pm$ 25%	100	0.10	1500	50	125	10M
ACM4532-2P-221TF	220 $\pm$ 25%	100	0.10	1400	50	125	10M
ACM4532-2P-601TF	600 $\pm$ 25%	100	0.24	1500	50	125	10M
ACM4532-2P-801TF	800 $\pm$ 25%	100	0.24	1000	50	125	10M
ACM4532-2P-102TF	1000 $\pm$ 25%	100	0.18	1000	50	125	10M
ACM4532-2P-142TF	1400 $\pm$ 25%	100	0.20	700	50	125	10M
ACM4532-2P-252TF	2500 $\pm$ 25%	100	0.90	200	50	125	10M

Typical Electrical Characteristics:

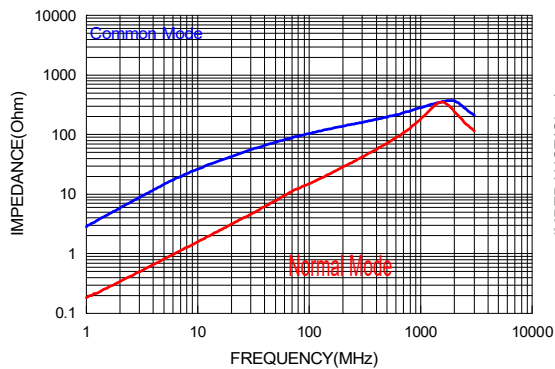
ACM4532-2P-800TF



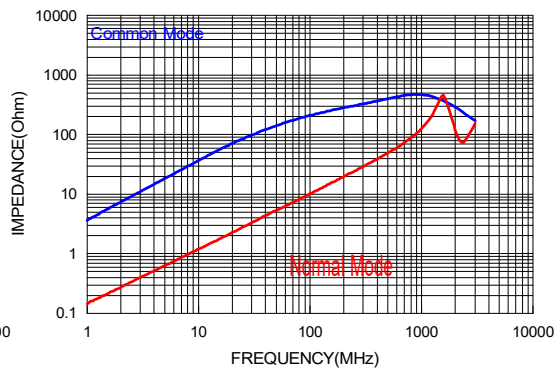
ACM4532-2P-900TF



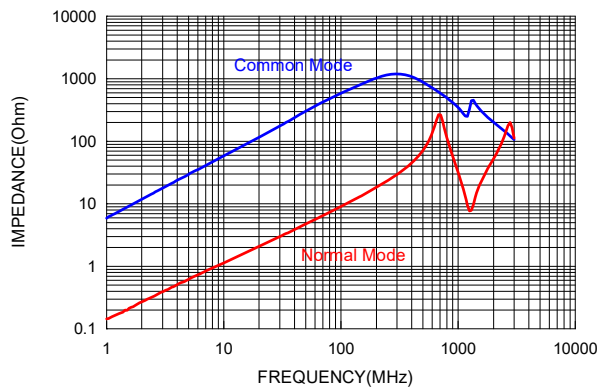
ACM4532-2P-121TF



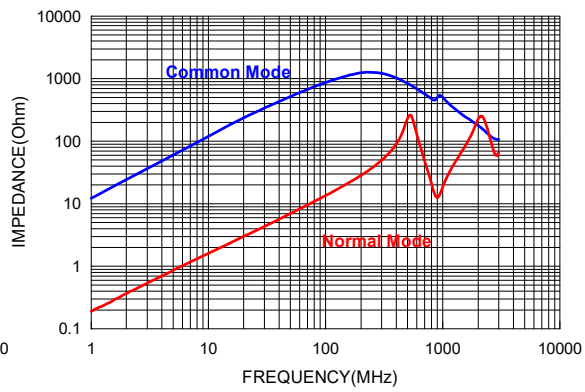
ACM4532-2P-201TF



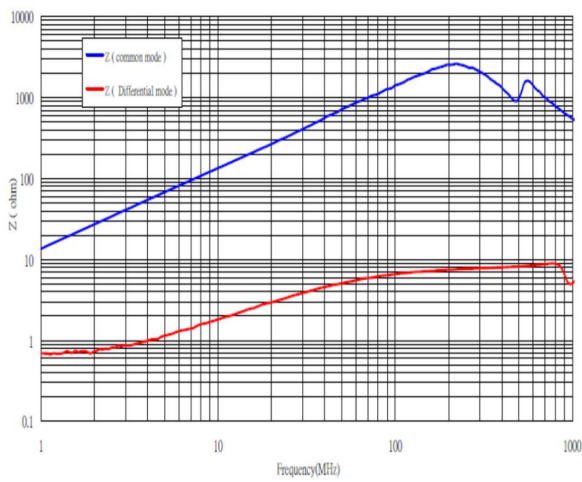
ACM4532-2P-601TF



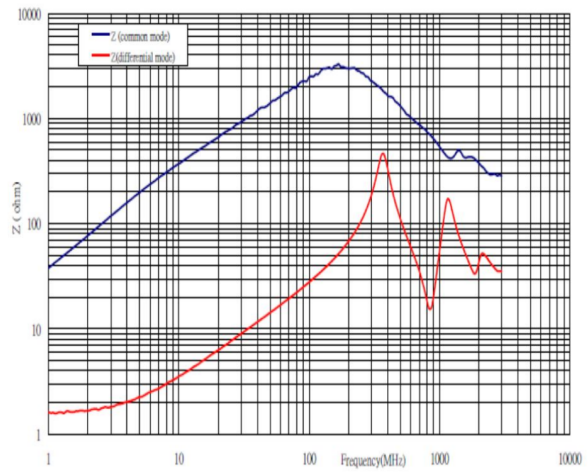
ACM4532-2P-801TF



ACM4532-2P-142TF



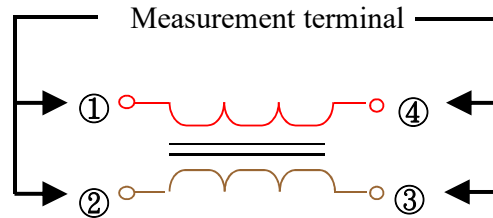
ACM4532-2P-252TF



Test Equipment

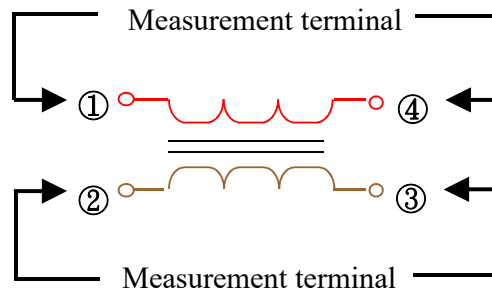
Inductance

Measured by using Agilent HP4284A Precision LCR Meter.



DC Resistance

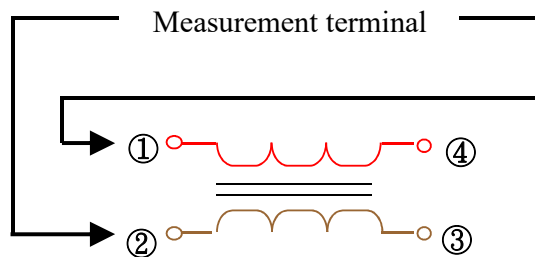
Measured by using Chroma 16502 mill ohm meter.



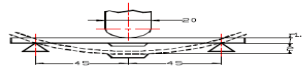
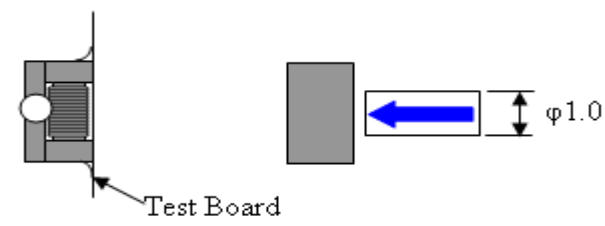
Insulation Resistance

Measured by using Chroma 19073

Measurement voltage : 50v ,Measurement time : 60 sec.



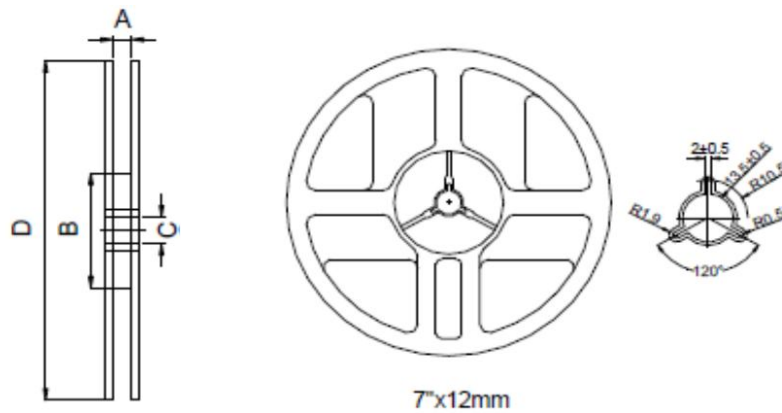
Reliability Test

Operating temperature : -40 to +125°C		Storage temp and humidity : 20~25°C ,60%RH max.
Item	Specifications	Test conditions
Board Flex	The forces applied on the right conditions must not damage the terminal electrode and the ferrite.	Test device shall be soldered on the substrate Substrate Dimension: 100x40x1.6mm Deflection: 2.0mm Keeping Time: 60 sec 
Terminal strength	The chip must not damage the terminal electrode and the ferrite.	Appendix 1 Note(AEC-Q200-006):Force of 1.8 kg for 60 seconds. 
Solderability	The electrodes shall be at least 95% covered with new solder coating.	Pre-heating: 150 °C , 1min Solder Composition: Sn/3.0Ag/0.5Cu Solder Temperature: 255±5 °C Immersion Time: 4±1sec
Resistance to Soldering Heat	Appearance:No damage Inductance change shall be within ±20%.	Pre-heating: 150°C , 1min Solder Composition: Sn/Ag3.0/Cu0.5 Solder Temperature: 255±5°C Immersion Time: 10±1sec
Resistance to Solvents	There must be no change in appearance or obliteration of marking.	Inductors must withstand 6 minutes of alcohol or water.
Mechanical Shock	The forces applied on the right conditions must not damage the terminal electrode and the ferrite.	Pulse shape:Half-sine waveform Impact acceleration:100g Pulse duration : 6ms Number of shocks: 18 shocks (3 shocks for each face) Orientation:Bottom,top,left,right,front and rear faces

Item	Specifications	Test conditions
Vibration	Appearance:No damage Inductance change shall be within $\pm 20\%$.	Vibration waveform: Sine waveform Vibration frequency: 10Hz~2000Hz Vibration acceleration: 5g Sweep rate: 0.764386octave/minute Duration of test: 12 cycles each of 3 orientations 20 minutes for each cycle Vibration axes: X, Y & Z
High Temperature Exposure (Storage)	Appearance:No damage (for microscope of MEIJI WF10X/22) Inductance change shall be within $\pm 30\%$.	Temperature: $125\pm 3^{\circ}\text{C}$ Time:1000hrs Measured after exposure in the room condition for 24hrs
Biased Humidity		Temperature: $85\pm 2^{\circ}\text{C}$ Relative Humidity: 85% Time: 1000hrs Measured after exposure in the room condition for 24hrs
Operational Life		Temperature : $125\pm 2^{\circ}\text{C}$ Applieed Current : Rated Current Time :1000 $\pm$ 24 hrs Measured after exposure in the room condition for 24 hrs
Temperature Cycling		Total cycles: 1000 cycles Temperature Cycling Test Conditions : -40 to $+125^{\circ}\text{C}$ Soak Mode Condition : 30 minutes Measured after exposure in the room condition for 24hrs

Reel Dimension & Tape Dimension

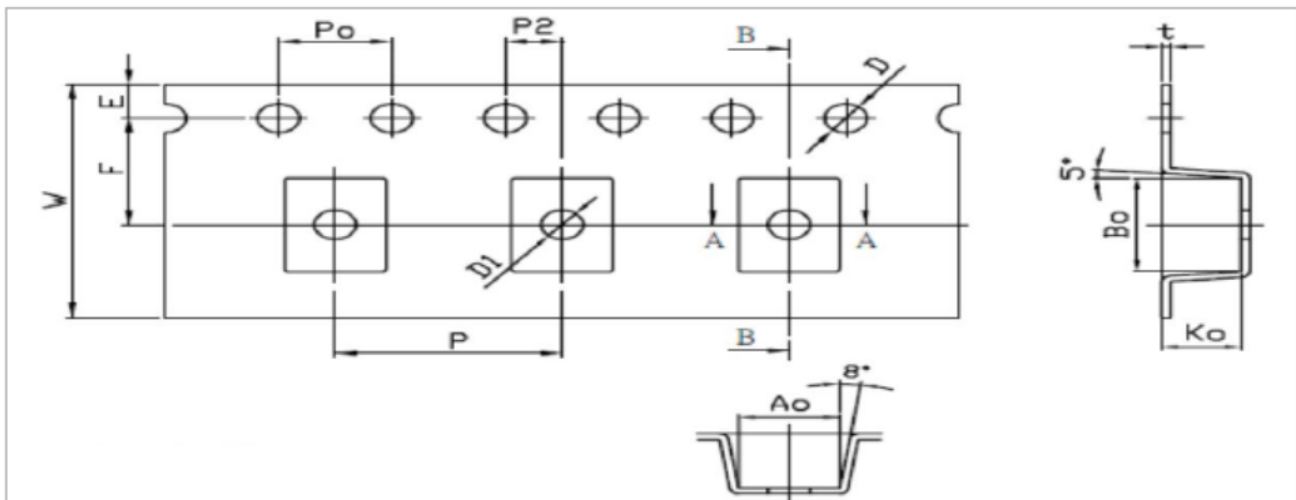
Reel Dimensions



Unit: mm

A	B	C	D
13.2±0.5	60±2	13±0.5	180±2

Tape Dimensions

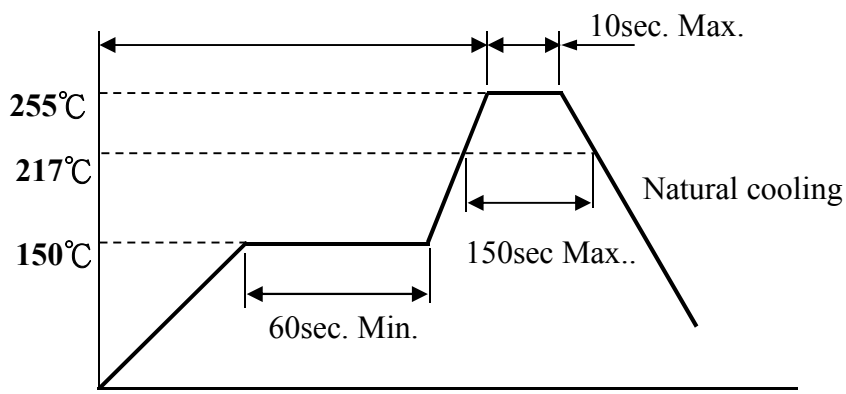


Symbol	W	P	E	F	P2	D	D1	Po	10Po
Dimension	12.00	8.00	1.75	5.50	2.00	1.50	1.50	4.00	40.00
SPEC.	±0.1	±0.1	±0.1	±0.05	±0.05	+0.10 -0.00	±0.1	±0.1	±0.2
Symbol	Ao	Bo	Ko	t					
Dimension	3.57	4.80	2.80	0.30					
SPEC.	±0.1	±0.1	±0.1	±0.05					

Packaging Quantity:500PCS/Reel

Recommended Reflow Pattern

Reflow : until two times



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