

**RoHS
Compliant**



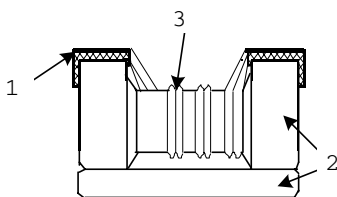
Features

- Small chip inductor with ferrite core and two line types wire wound
- Highly effective in noise suppression High common-mode impedance at noise band and low differential-mode impedance at signal band
- Low differential-mode impedance with high coupling factor. There is almost no distortion on high-speed signal.
- Operating temperature -40°C~85°C

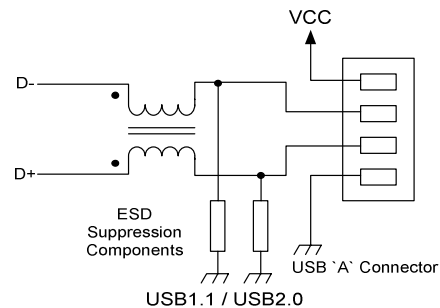
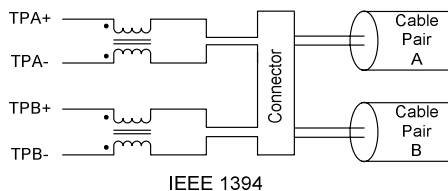
Applications

- EMI Radiation Noise Suppression for Any Electronic Device
- USB Line for Personal Computers and Peripheral
- IEEE 1394 Line for Personal Computers, DVC, STB
- LCD Panels. Low-Voltage Differential Signal (LVDS)

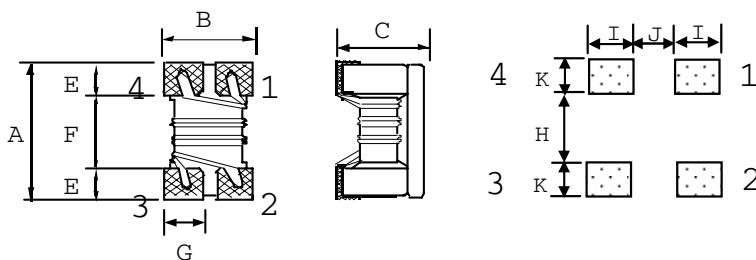
Construction



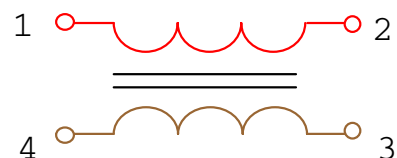
1	Terminal
2	Ferrite
3	Enamel-insulated Wire



Dimensions



Equivalent Circuit



Unit : mm

Case Code	A	B	C	E	F	G	H	I	J	K	Weight (g) (1000pcs)
0805	2±0.2	1.2±0.2	1.2±0.2	0.45	1.2	0.4	0.8	0.4	0.4	0.9	19
1206	3.2±0.2	1.6±0.2	1.9±0.2	0.6	2	0.6	1.6	0.6		1.05	53.3

Standard Electrical Specifications

0805 / Standard Type

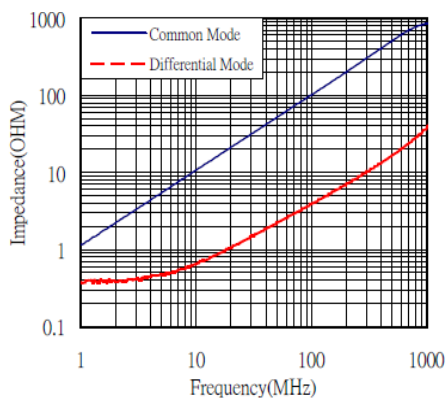
Impedance (Ω)	Tolerance	Test Condition (MHz)	DCR (Ω) max.	IDC (mA) max.	Rated Voltage Vdc (V)	Withstanding Voltage Vdc (V)	Insulation Resistance (MΩ) min.
90	±20%	100	0.35	330	50	125	10
120	±20%	100	0.3	370	50	125	10
220	±20%	100	0.35	330	50	125	10
370	±20%	100	0.4	280	50	125	10

1206 / Standard Type

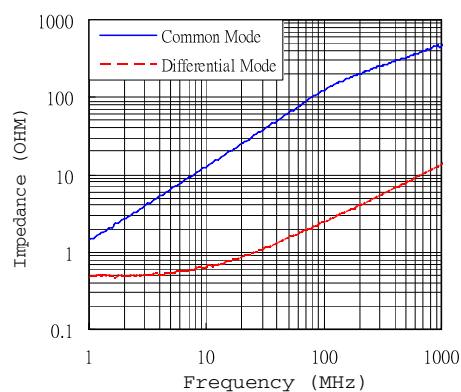
Impedance (Ω)	Tolerance	Test Condition (MHz)	DCR (Ω) max.	IDC (mA) max.	Rated Voltage Vdc (V)	Withstanding Voltage Vdc (V)	Resistance (MΩ) min.
90	±20%	100	0.30	370	50	125	10
1000	±20%	100	1.00	230	50	125	10
2200	±20%	100	1.20	200	50	125	10

Characteristics (Impedance vs. Frequency)-0805

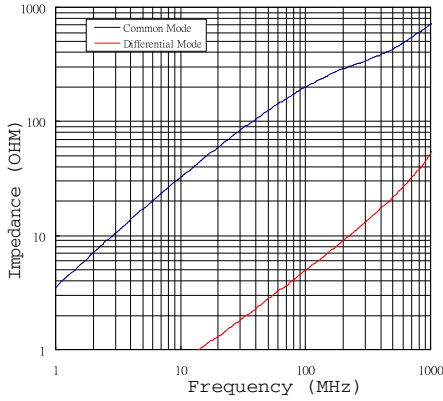
MP002811



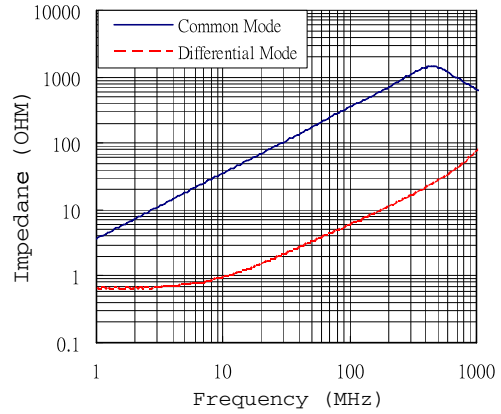
MP002812



MP002813

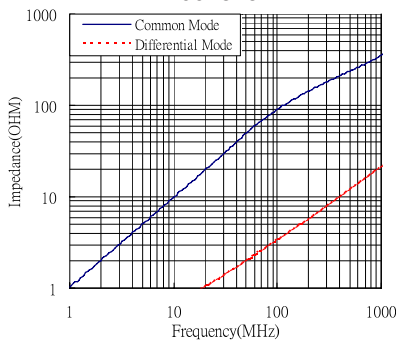


MP002814

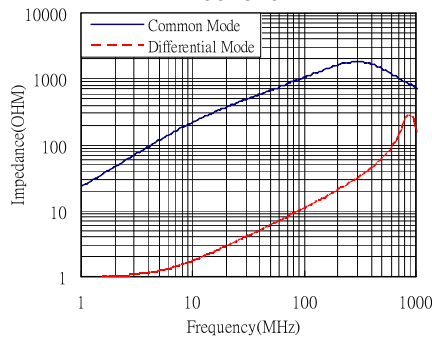


Characteristics (Impedance vs. Frequency)-1206

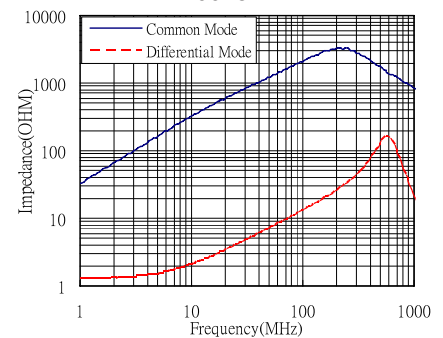
MP002815



MP002816



MP002817



Electrical Performance Test

Items	Requirement	Test Conditions / Test Methods
Impedance	Refer to standard electrical characteristic spec. Component should not be damaged	LCR Meter HP 4291B
DC Resistance DCR		Micro-Ohm meter (GOM-801G)
Withstand Voltage (VDC)		Test Voltage: 2.5 Times Rated Voltage Testing Time: 60 seconds Charge Current: 0.5mA
Rated Voltage (VDC)		Test Voltage: Rated Voltage Testing Time: 1 to 5 seconds Charge Current: 1mA
Insulation Resistance (I.R)		Charge Current: 1 minute 10m Ω min.

Mechanical Performance Test

Items	Requirement	Test Conditions / Test Methods
Component Adhesion (Push Test)	Base: 0805≥2 Lbs Cover: 0805≥1 Lbs Base: 1206≥4 Lbs Cover: 1206≥2 Lbs	The component should be soldered (232°C± 5°C for 10 sec.) to tinned copper substrate Applied force gauge to the side of component It must withstand force of 2 or 4 pounds without failure of the component.
Drop	Component should not be damaged	Dropping chip by each side and corner. Drop 10 times in total Drop height: 100 cm Drop weight: 125 g
Solderability	The terminal should at least be 90% covered with solder	The component shall be dipped in a melted solder bath at 245 ±5 for 3 seconds
Vibration Test (Low Frequency)	Component should not be damaged	1. Amplitude: 1.5 m/m 2. Frequency: 10-55-10Hz (1min.) 3. Direction: X, Y, Z 4. Duration: 2 Hrs/X, Y, Z

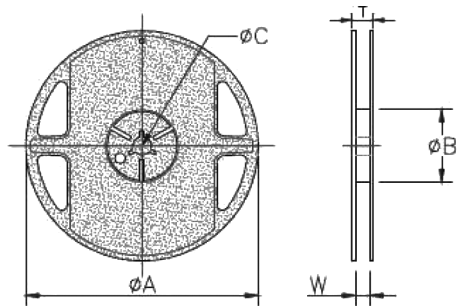
Storage Temperature: 15~28°C; Humidity < 80%RH

Climatic Test

Items	Requirement	Test Conditions / Test Methods
Low Temperature Storage	Impedance change: Within± 20% Without distinct damage in appearance	1. Temp: -40°C ±2°C 2. Time: 1000 ±48 Hours 3. Component should be tested after 1 hour at room temperature
Thermal Shock		<p>Total: 5 Cycles</p>
High Temperature Storage		1. Temp: 85°C ±2°C 2. Time: 1000 ±48 Hours 3. Component should be tested after 1 hour at room temperature
Humidity		1. Temp: 40°C ±2°C 2. R.H. : 90% to 95% 3. Time: 48 ±2 Hours
High Temperature Load Life		1. Temp: 85°C ±2°C 2. Time: 96 ±12 Hours 3. Load: Allowed DC Current
Low Temperature Load Life		1. Temp: -40°C ±2°C 2. Time: 96 ±12 Hours 3. Load: Allowed DC Current

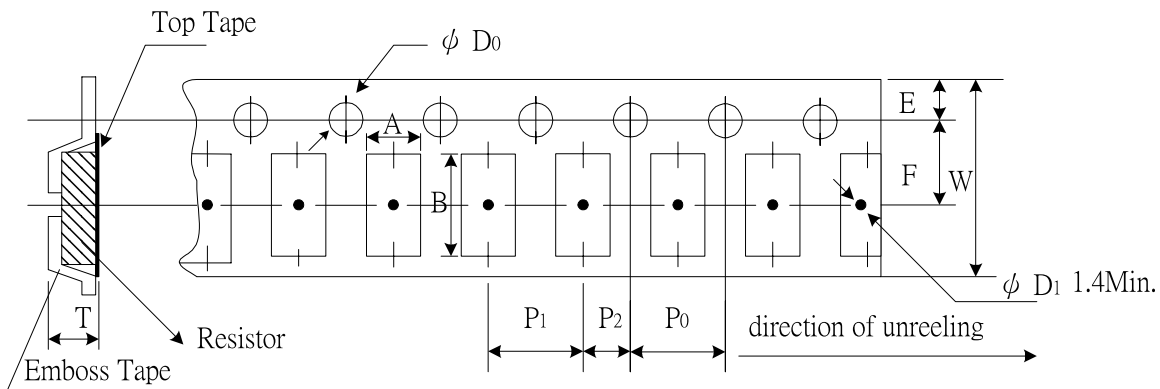
Packaging

Packaging Quantity & Reel Specifications



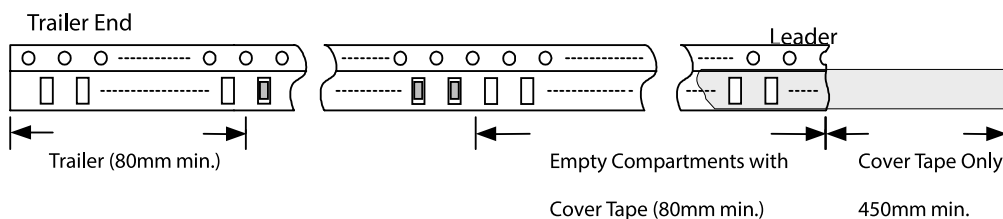
Type	ΦA	ΦB	ΦC	W	T	Quantity (EA)
0805	78±2	60±0.5	13±0.3	9±0.3	11.4±1	2000
1206						

Embossed Plastic Tape Specifications



Type	A	B	W	E	F	P0	P1	P2	ΦD0	t
0805	1.4±0.1	2.55±0.05	8±0.2	1.75±0.1	3.5±0.1	4±0.1	4±0.1	2±0.1	1.5±0.1	1.35±0.1
1206	1.9±0.1	3.5±0.05								2.1±0.1

Leader / Tape



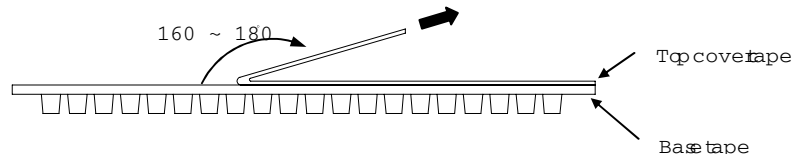
Peel-off Force

The force for tearing off cover tape is 0.05 to 0.69 (N) in the arrow direction at the following conditions:

Temperature: 5°C to 35°C

Humidity: 45% to 85%

Atmospheric pressure: 860hpa to 1060hpa



Part Number Table

Description	Part Number
Chip Common Mode Choke, 20%, 90Ω, 0805	MP002811
Chip Common Mode Choke, 20%, 120Ω, 0805	MP002812
Chip Common Mode Choke, 20%, 220Ω, 0805	MP002813
Chip Common Mode Choke, 20%, 370Ω, 0805	MP002814
Chip Common Mode Choke, 20%, 90Ω, 1206	MP002815
Chip Common Mode Choke, 20%, 1kΩ, 1206	MP002816
Chip Common Mode Choke, 20%, 2.2kΩ, 1206	MP002817

Important Notice : This data sheet and its contents (the "Information") belong to the members of the AVNET group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. Multicomp Pro is the registered trademark of Premier Farnell Limited 2019.