

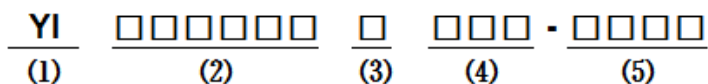
**■ Features**

- High density packaging with a pitch of 2.54mm(0.1 inch) max. is possible.  
This series requires less space and has greater EMI suppression effects.
- Different types with the same shape are available.
- Excellent in physical properties, such as terminal strength, flexure strength, soldering resistance and solderability.
- Applicable to both flow and reflow soldering.
- High impedance cover wide frequency ranges.
- YI series can be used in high current circuits due to its low DC resistance.
- Operating temperature: -55°C ~ +125°C (Including self-temperature).

**■ Applications**

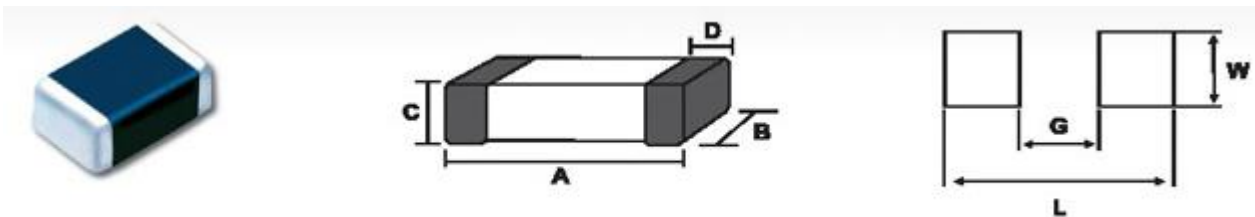
- Computers and peripheral devices, personal computers, VCR and cameras.
- Noise suppression in digital equipments, car stereo, car engines controllers and OA electronic instruments.
- Communication equipment.

**■ Product Identification**



- (1) : Type
- (2) : Dimensions
- (3) : Material Code
- (4) : Impedance
- (5) : Rated Current

**Shapes and Dimensions (Unit: mm)**



TYPE	A	B	C	D	L	W	G
YI201209	2.0±0.2	1.2±0.2	0.9±0.2	0.5±0.3	3.20	1.50	0.60

**Electrical Requirements**

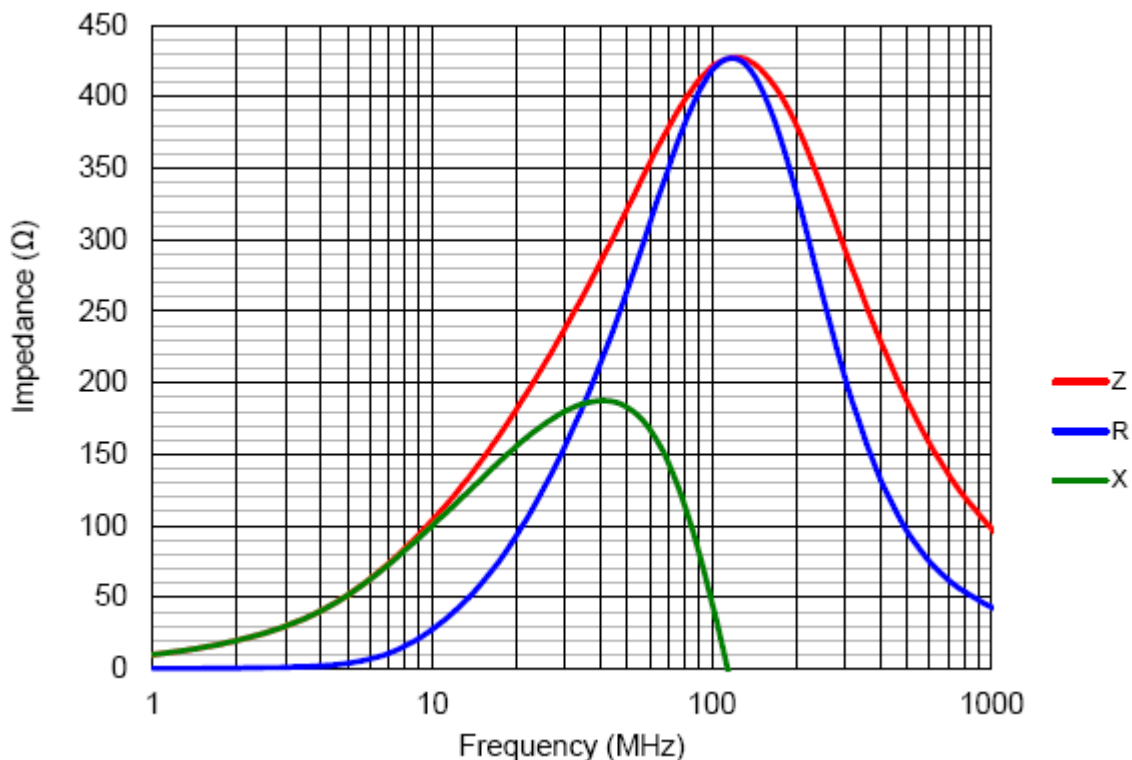
Part Number	Impedance(Ω) ±25%	Test Freq. (MHz)	DCR MAX. (mΩ)	Rating Current MAX.(A)
YI201209A401-3R0T	400	100	40	3.0

TEST INSTRUMENTS:

HP 4338A MILLIOHM METER

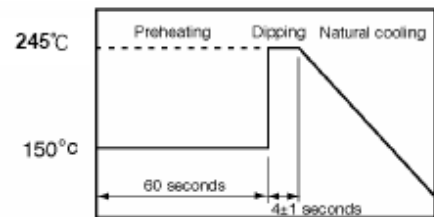
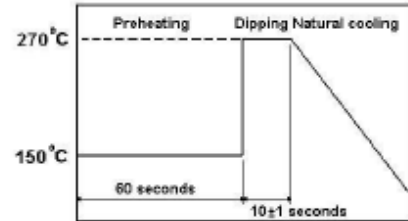
HP 4291B RF IMPEDANCE/MATERIAL ANALYZER

**Impedance VS. Frequency characteristic**



**Reliability test**

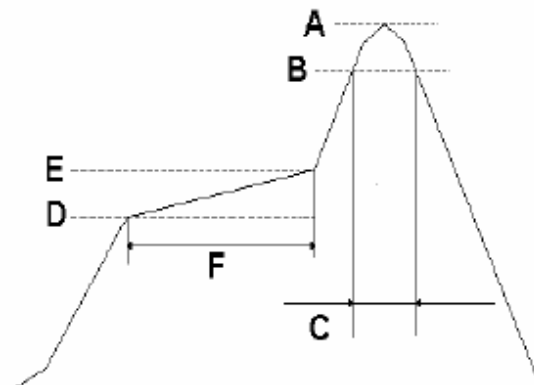
Item	Performance	Test condition
Operating temperature range	-55 °C to + 125 °C	
Storage temperature and umidity ranges	40 °C MAX., 70% RH MAX.	
Soldering heat resistance	The chip shall not be cracks. More than 75% of terminal electrode shall be covered with solder.	Preheat: 150 °C, 60 seconds Solder temperature : <b>270 ± 5 °C</b> Flux: Rosin Dip time: 10 ± 1 seconds
Solderability	More than 90% of the terminal electrode shall be covered with new solder.	Preheat: 150 °C, 60 seconds Solder temperature: <b>245 ± 5 °C</b> Flux: Rosin Dip time: 4 ± 1 seconds



**Recommended Soldering Conditions**

(REFLOW TEMPERATURE PROFILE) **Lead-Free**

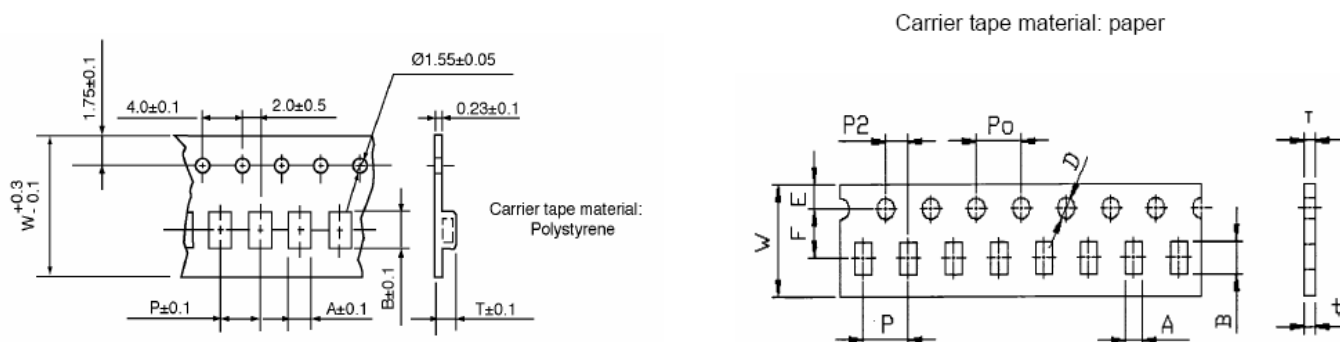
A	$260 \pm 5^{\circ}\text{C}$
B	$230 \pm 5^{\circ}\text{C}$
C	$30 \pm 10 \text{ sec}$
D	$150^{\circ}\text{C}$
E	$180^{\circ}\text{C}$
F	$90 \pm 30 \text{ sec}$



## Reliability test

Item	Performance	Test condition
High temperature resistance	Appearance: Ferrite shall not be damaged. Impedance: Within±20% of the initial value.	Temperature: 85±2°C Testing time: 1008±12 hours Measurement: After placing for 24 hours min.
Humidity resistance	Appearance: Ferrite shall not be damaged. Impedance: Within±20% of the initial value	Humidity: 90 to 95% RH Temperature: 40±2°C Testing time: 1008±12 hours Measurement: After placing for 24 hours min.
Thermal Shock	Appearance: Cracking, chipping or any other defects harmful to the characteristics shall not be allowed. Impedance: Within±20% of the initial value	Temperature: -40°C, +85°C, kept stabilized for 30 minutes each Cycle: 100 cycles Measurement: After placing for 24 hours min.
Low temperature storage life test	Appearance: Cracking, chipping or any other defects harmful to the characteristics shall not be allowed. Impedance: Within±20% of the initial value.	Temperature: -40±2°C Testing time: 1008±12 hours Measurement: After placing for 24 hours min.

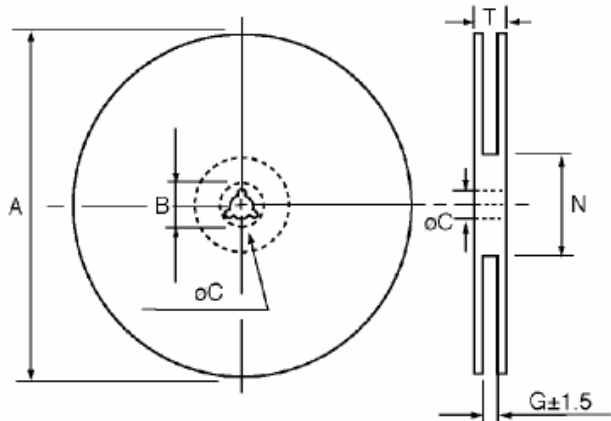
**■ Taping Dimensions(Unit:mm)**



Material:Paper						
TYPE	A	B	W	P	T	CHIPS/REEL
100505	0.62	1.12	8	2	0.60	10000
160808	1.10	1.90	8	4	0.95	4000
201209	1.50	2.30	8	4	0.95	4000
Material:Polystyrene						
TYPE	A	B	W	P	T	CHIPS/REEL
160808	1.01	1.80	8	4	1.02	4000
201209	1.42	2.25	8	4	1.04	4000
201212	1.50	2.35	8	4	1.45	3000
321611	1.88	3.50	8	4	1.27	3000
322513	2.77	3.42	8	4	1.55	2000
451616	1.93	4.95	12	4	1.93	2000
453215	3.66	4.95	12	8	1.85	1000
YA3216M4	1.88	3.50	8	4	1.40	3000

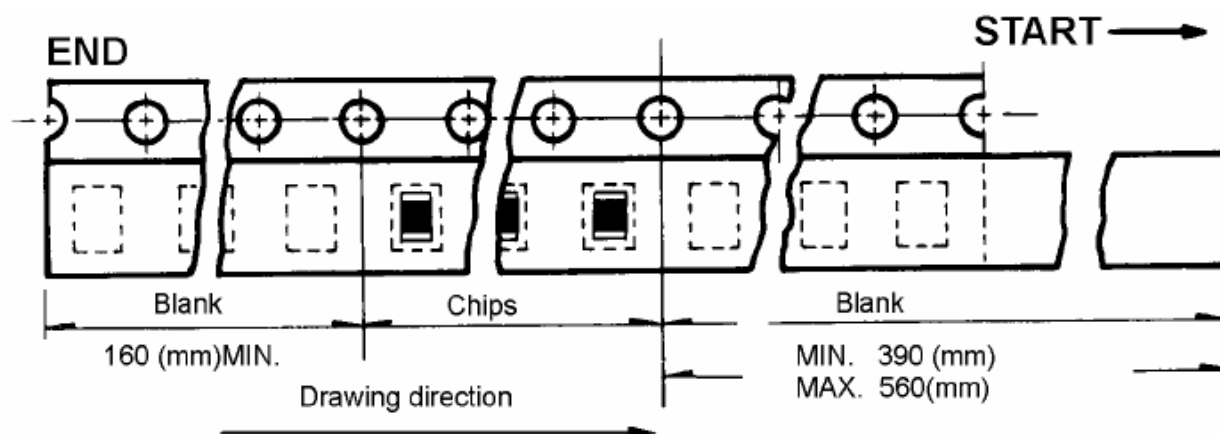
**Reel Dimensions(Unit:mm)**

Material:Paper, Plastic



TYPE	8mm	12mm
A	178±2	178±2
B	21.0±0.8	21.0±0.8
C	13.0±0.8	13.0±0.8
G	10.0	14.0
N	75	75
T	12.5	16.5

**Direction of rolling**



## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Fixed Inductors](#) category:*

*Click to view products by [YJYCOIN](#) manufacturer:*

Other Similar products are found below :

[CR32NP-100KC](#) [70F224AI](#) [MHQ1005P10NJ](#) [MHQ1005P1N0S](#) [MHQ1005P2N4S](#) [MHQ1005P3N6S](#) [MHQ1005P5N1S](#) [MHQ1005P8N2J](#)  
[PE-53601NL](#) [PE-53602NL](#) [PG0936.113NLT](#) [9220-20](#) [9310-16](#) [PM06-2N7](#) [PM06-39NJ](#) [A01TK](#) [1206CS-471XJ](#) [HC2-R47-R](#) [HC8-1R2-R](#)  
[HCF1305-3R3-R](#) [1206CS-151XG](#) [RCH664NP-4R7M](#) [RCP1317NP-391L](#) [DH2280-4R7M](#) [DS1608C-106](#) [B10TJ](#) [B82498B3101J000](#) [ELJ-](#)  
[RE27NJF2](#) [1812CS-153XJ](#) [1812CS-183XJ](#) [1812CS-223XJ](#) [1812LS-104XJ](#) [1812LS-105XJ](#) [1812LS-124XJ](#) [1812LS-154XJ](#) [1812LS-223XJ](#)  
[1812LS-224XJ](#) [1812LS-563XJ](#) [1812LS-683XJ](#) [1812LS-824XJ](#) [NIN-FB101JTR110F](#) [NIN-FB471JTR62F](#) [NIN-FC1R5JTR220F](#) [NIN-](#)  
[HCR15JTRF](#) [NIN-HCR33JTRF](#) [NIN-HDR22JTRF](#) [NIN-HDR82JTRF](#) [NIN-HK2N7STRF](#) [NIN-PA150KTR370F](#) [NIN-PB100KTR550F](#)