

# L0201R56AHSTR\500 Datasheet

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DiGi Electronics Part Number	L0201R56AHSTR\500-DG
Manufacturer	<a href="#">KYOCERA AVX</a>
Manufacturer Product Number	L0201R56AHSTR\500
Description	FIXED IND 0.56NH 500MA 100 MOHM
Detailed Description	0.56 nH Unshielded Thin Film Inductor 500 mA 100 mOhm Max 0201 (0603 Metric)

<https://www.DiGi-Electronics.com>



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DiGi is a global authorized distributor of electronic components.

## Purchase and inquiry

Manufacturer Product Number:

L0201R56AHSTR\500

Series:

Accu-L®

Type:

Thin Film

Inductance:

0.56 nH

Current Rating (Amps):

500 mA

Shielding:

Unshielded

Q @ Freq:

9 @ 450MHz

Ratings:

-

Inductance Frequency - Test:

450 MHz

Package / Case:

0201 (0603 Metric)

Size / Dimension:

0.024" L x 0.012" W (0.60mm x 0.30mm)

Manufacturer:

KYOCERA AVX

Product Status:

Active

Material - Core:

Non-Magnetic

Tolerance:

±0.05nH

Current - Saturation (Isat):

-

DC Resistance (DCR):

100mOhm Max

Frequency - Self Resonant:

31GHz

Operating Temperature:

-55°C ~ 125°C

Mounting Type:

Surface Mount

Supplier Device Package:

0201 (0603 Metric)

Height - Seated (Max):

0.011" (0.28mm)

## Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Unaffected

HTSUS:

8504.50.8000

Moisture Sensitivity Level (MSL):

1 (Unlimited)

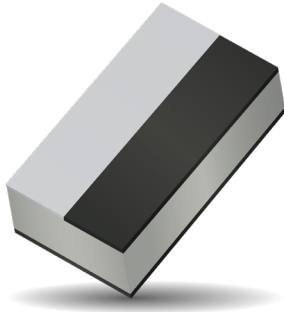
ECCN:

EAR99

# Thin-Film RF/Microwave Inductor Technology

## Accu-L® Series

### L0201 Tight Tolerance RF Inductor



#### ACCU-L® TECHNOLOGY

The L0201 SMD Tuning Inductor is based on thin-film multilayer technology. The technology provides a miniature part with excellent high frequency performance and rugged construction for reliable automatic assembly.

#### APPLICATIONS

- Mobile Communications
- Satellite TV Receivers
- GPS
- Vehicle Location Systems
- Wireless LAN's
- Filters
- Matching Networks

#### HOW TO ORDER

**L0201**

**xxx**

**X**

**H**

**S**

**TR**

Inductance  
(nH)

Tolerance

Series

Lead Free  
Termination

Taped &  
Reeled

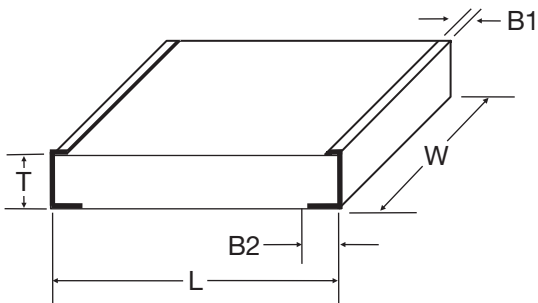


P/N Example: L02013R3BHSTR

Finished parts are 100% tested for electrical parameters and visual characteristics. Each production lot is evaluated on a sample basis for:

- Static Humidity: 85°C, 85% RH, 160 hours
- Endurance: 125°C, IR, 4 hours

#### DIMENSIONS: millimeters (inches) (TOP View)

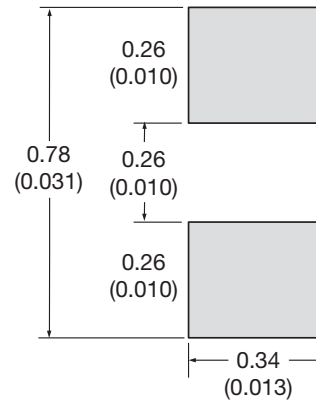


<b>L</b>	0.600±0.050 (0.024±0.002)
<b>W</b>	0.325±0.050 (0.013±0.002)
<b>T</b>	0.225±0.050 (0.009±0.002)

<b>B1</b>	0.100±0.100 (0.004±0.004)
<b>B2</b>	0.150±0.050 (0.006±0.002)

#### Recommended Pad Layout Dimensions

mm (inches)



#### OPERATING / STORAGE TEMPERATURE

-55°C to +125°C

## Thin-Film RF/Microwave Inductor Technology

## Accu-L® Series

## L0201 Tight Tolerance RF Inductor



## ELECTRICAL SPECIFICATIONS

L(nH)	450MHz		900MHz	1900MHz	2400MHz	SRF min. (GHz)	R <sub>DC</sub> max. (Ω)	I <sub>DC</sub> max. (mA)
	Tolerance A=±0.05nH, B=±0.1nH, C=±0.2nH, D=±0.5nH	Q (min)	Q (Typ)	Q (Typ)	Q (Typ)			
0.33	±0.05nH, ± 0.1nH, ± 0.2nH	13	24	36	39	35	0.1	550
0.39	±0.05nH, ± 0.1nH, ± 0.2nH	11	23	34	38	33	0.1	550
0.47	±0.05nH, ± 0.1nH, ± 0.2nH	10	18	26	30	32	0.1	550
0.56	±0.05nH, ± 0.1nH, ± 0.2nH	9	16	24	27	31	0.1	500
0.68	±0.05nH, ± 0.1nH, ± 0.2nH	8	19	28	32	30	0.2	500
0.82	±0.05nH, ± 0.1nH, ± 0.2nH	8	19	28	32	28	0.2	400
1.0	±0.05nH, ± 0.1nH, ± 0.2nH	7	16	26	30	26	0.2	400
1.2	±0.05nH, ± 0.1nH, ± 0.2nH	7	16	26	30	24	0.3	300
1.5	± 0.1nH, ± 0.2nH, ± 0.5nH	7	16	26	30	23	0.5	250
1.8	± 0.1nH, ± 0.2nH, ± 0.5nH	7	15	25	29	20	0.5	250
2.2	± 0.1nH, ± 0.2nH, ± 0.5nH	7	15	22	24	18	0.6	200
2.7	± 0.1nH, ± 0.2nH, ± 0.5nH	7	15	22	24	14	0.7	180
3.3	± 0.1nH, ± 0.2nH, ± 0.5nH	7	15	22	24	13	1.0	150

All intermediate Inductance values within the indicated range are available.

## OUR CERTIFICATE

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