

**Features**

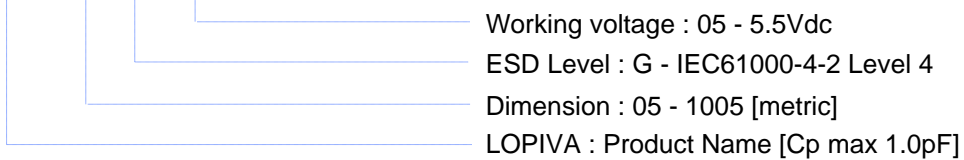
1. Excellent ESD clamping & Small Insertion Loss
2. High transient current capability, Fastest response time
3. Capacitance is designed to ultra-low value, which can be efficiently suitable to high speed data line.
4. EU-RoHS Compliance

**Applications**

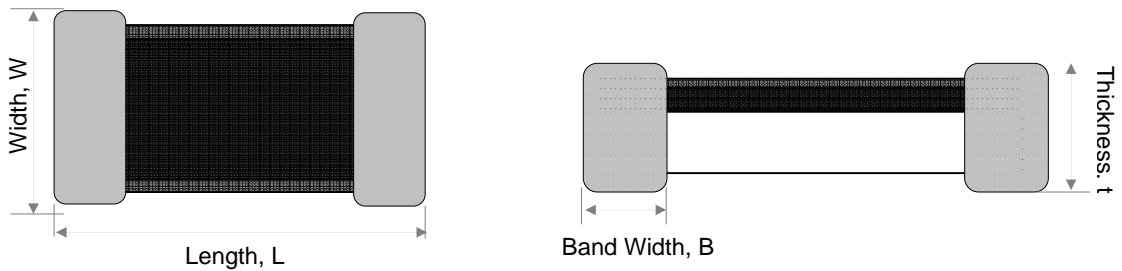
1. CMOS and MOSFET protection from ESD
2. Computer ESD and I/O protection
3. Telecommunication transient protection
  - USB2.0 port, IEEE-1394, RF module, Antenna circuit, high speed Protocol Etc.

**Part Numbering**

**LOPIVA 05 G 05**



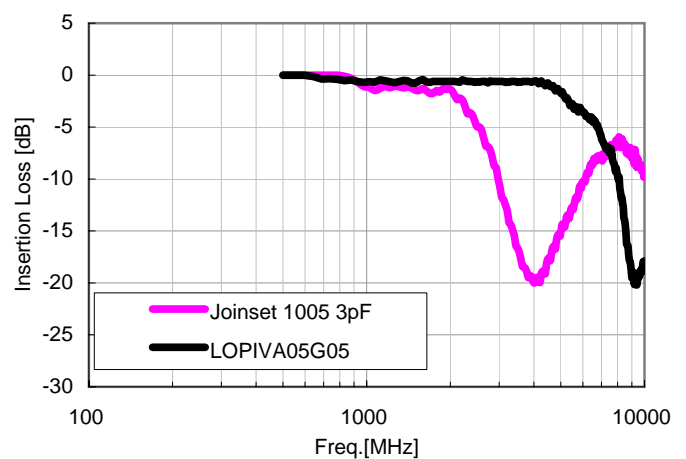
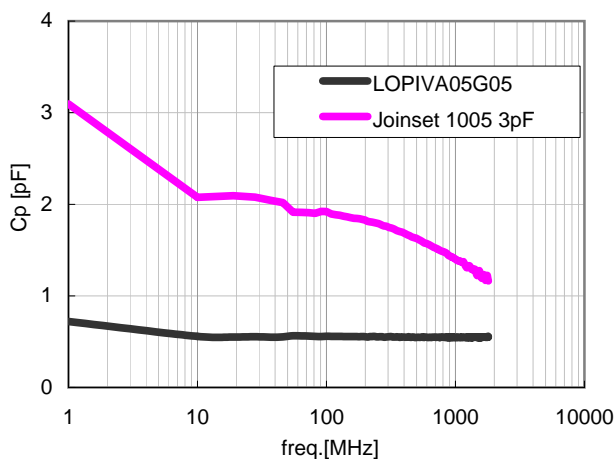
**Shape & Dimension**



unit : mm

Size	L	W	t	B
1005	1.05 +/- 0.1	0.50 +/-0.1	0.40 +/-0.1	0.20 ± 0.10

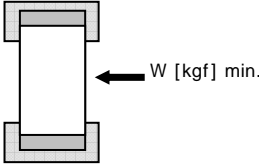
**Frequency properties ; Cp, Insertion Loss**



## Part List

No.	Part No.	Size(mm)	Vw	IL	ESD		Cp(1MHz)	Cut-off Frequency (-3dB)
					Contact	Air		
1	LOPIVA 05G05	1005	5.5	1.0uA	8KV	15KV	0.8pF	5GHz
2	LOPIVA 16G05	1608	5.5	1.0uA	8KV	15KV	0.8pF	5GHz

## Performance specifications

No	Item	Requirements	Test method
1	Operation Range	1. -40 ~ 85	
2	Leakage current	1. Satisfaction to the specification, under 1uA	1. Applied voltage : specified working voltage
3	Capacitance	1. Satisfaction to the specification, under 1pF	1. Frquency & OSC level : 1MHz, 0.5Vrms
4	Solderability	1. More than 90% of the terminal electrode shall be covered with new solder.	1. Type of solder : H63A 2. Soldering Temp & Time : 230+/-5 , 5+/-1 sec
5	Reflow soldering	1. No Serious mechanical damage 2. More than 50% of the terminal electrode shall be covered with new solder 3. Leakage Current : 10uA	1. Type of solder : H63A 2. Temp & Time : max 260+/-5 , min 10sec * Refer to the soldering profile of page 6
6	Humidity Load Test	1. No Serious mechanical damage 2. Leakage Current : 10uA	1. Test Temp. & Relative Humidity & Time : 40 +/- 5 , 90 +/- 5% RH, Vw Applied, 500 +/- 12hrs
7	Thermal Shock		1. Step 1 : -40 +/- 5 , Step 2 : 85 +/- 5 2. Cycle : 30min ± 3min, each 5 cycles
8	High Temp. Test		1. Temp. & time : 85+/-5 , 1000 +/- 24hrs
9	Adhesive strength	1. No Serious mechanical damage under condition of 1005 : min 0.5kgf, 1608 : min 1.0kgf	
10	ESD	1. No mechanical damage after test 2. Leakage Current : 10uA * ESD gun (IEC1000-4-2 standard) * C=150pF R=330	1. Contact discharge * Voltage : +/-8kV(Level 4) * Number : 10 times in 10sec 2. Air discharge * Voltage : +/-15kV(Level 4) * Number : 10 times in 10sec

\* Please does not apply a current of over 0.5mAdc to this part for measuring varistor voltage, etc.