



ESD Protector UltraLow Capacitance Series

FEATURE

- Suitable for use in RF signals due to the extremely low Capacitance
- Excellent ESD sparks: >2000 Times
- Excellent ESD protection as a result of low clamping voltage
- Quick response
- Bi-directional and both size (0402/0603)
- Lead (Pb) Free

ELECTRICAL CHARACTERISTICS

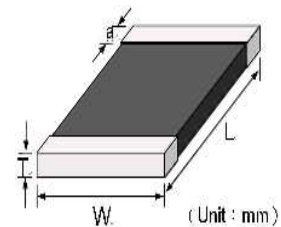
- Capacitance: 0.20/0.05pF (AC1V, 1MHz)
- Leakage current: 1nA(max.) (at the rating voltage)
- ESD Trigger Voltage^{*1}: 150V(0.2pF)/350V(0.05pF)
- ESD pulse withstand: 2000 times(min.)

*1: Based on IEC61000-4-2 8KV contact discharge

Model	0402(1005)	0603(1608)
Length(L)	1.00 ±0.10	1.60±0.15
Width(W)	0.50 ±0.10	0.80±0.10
Thickness(T)	0.60 max	0.90 max
Termination(a)	0.25±0.1	0.3±0.1

ENVIRONMENTAL CHARACTERISTICS

- Heat resistance: 85□, 1000hours
- Cold resistance: -55□, 1000hours
- Humidity resistance: 40□, 90~95%RH, 1000hours
(at working voltage)
- Soldering resistance: 260□, 10sec (Reflow soldering)



MATERIALS

- Body: Ceramics
- End Terminals: Ag/Ni/Sn



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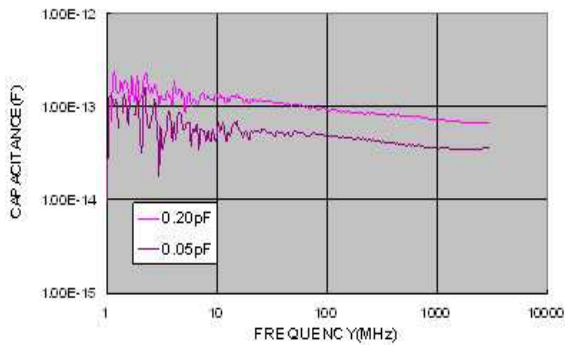
P/N.	Maximum Allowable Continuous DC Voltage	Typical Capacitance Value Measured at 1MHz (pF)	Typical ESD Trigger Voltage *1	Leakage current at VDC*2 (At initial state) (uA)	Leakage current at VDC*2 (At After state) (uA)	ESD contact 8KV times
SFI0402-060E0R20P-LF	6	0.2	150	<0.05	<0.5	>2000
SFI0402-240E0R05P-LF	24	0.05	300	<0.001	<0.01	>2000
SFI0603-060E0R20P-LF	6	0.2	150	<0.05	<0.5	>2000
SFI0603-240E0R05P-LF	24	0.05	300	<0.001	<0.01	>2000

*1: IEC61000-4-2 Test

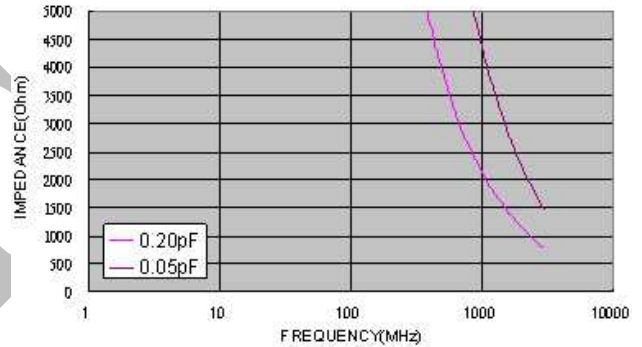
*2: Measured at DV 6V

■ ELECTRONIC CHARACTERISTIC

CAPACITANCE VS FREQUENCY CHARACTERISTICS



IMPEDANCE VS FREQUENCY CHARACTERISTICS



INSERTION LOSS VS FREQUENCY CHARACTERISTICS

