

Size	0.4 x 0.2	mm
Capacitance	1000	pF
Rated Voltage	3.6	V

●Features

- High reliability
- Low profile (180μm)
- ESD protection level ±8kV(HBM)
- Dimension tolerance ±10μm
- High shear strength by large electrode size

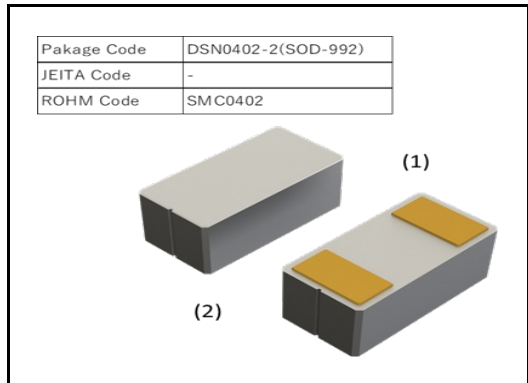
●Application

- Wireless
- Wearable equipment
- Optical transceiver

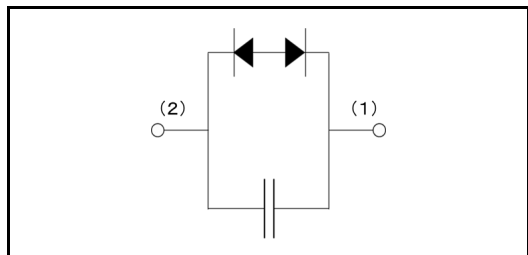
●Structure

- Trench Capacitor (NiPdAu electrode type)

●Outline



●Inner Circuit



●Packaging Specifications

Packing	Embossed Tape
Real Size (mm)	180
Taping Width (mm)	8
Basic Ordering Unit (pcs)	27,000
Taping Code	T27N
Marking	H

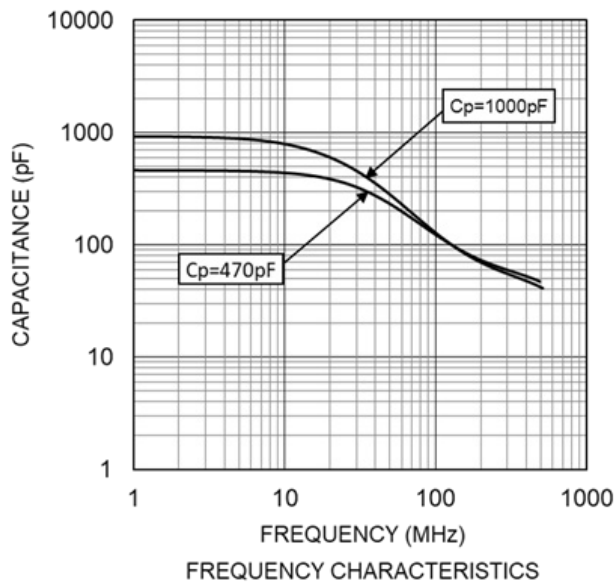
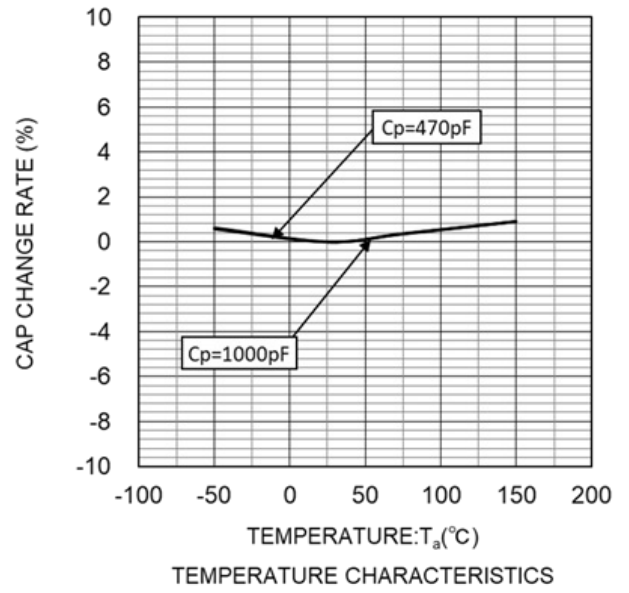
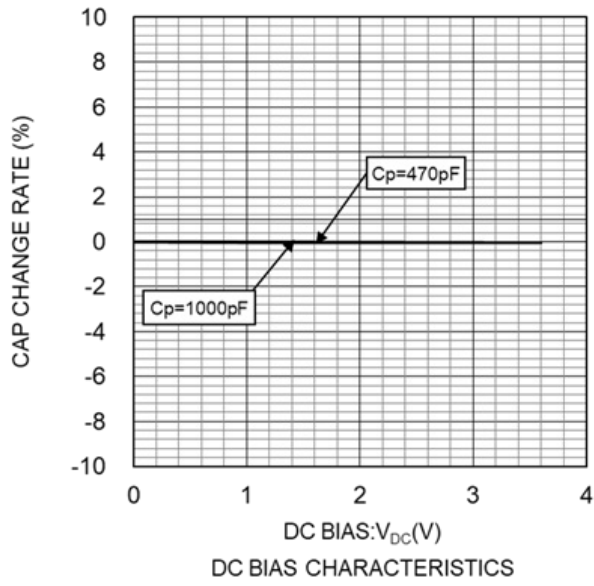
●Absolute maximum ratings $T_a=25^\circ\text{C}$

Parameter	Symbol	Conditions	Min.	Max.	Unit
Electrostatic discharge voltage	V_{ESD}	HBM (C=100pF R=1.5kΩ)	±8		kV
Storage temperature	T_{stg}	—	-55	150	°C
Operation temperature	T_{opr}	—	-55	150	°C

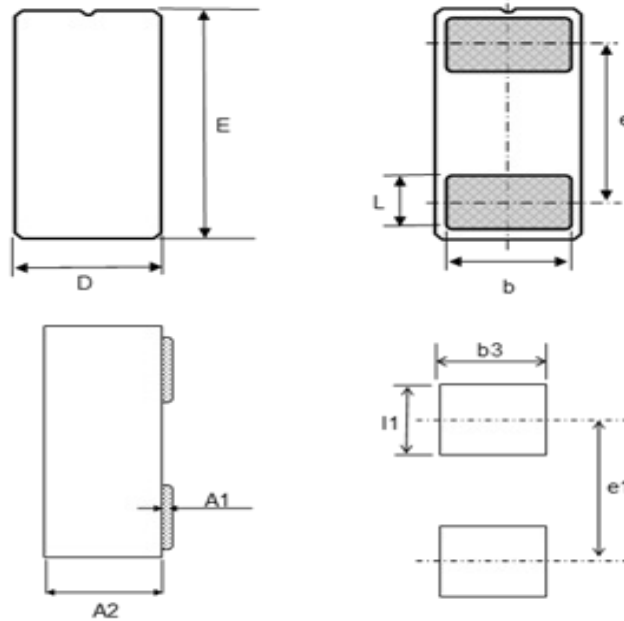
●Characteristics $T_a=25^\circ\text{C}$

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Capacitance value	C	—	-	1000	-	pF
Capacitance tolerance	ΔC_P	—	-15	-	15	%
Capacitance temperature variation	ΔC_T	-55°C ~ 150°C	-	C0K	-	
Rated voltage	RV_{DC}	—	-	-	3.6	V
Reverse breakdown voltage	V_{BR}	IR=1mA	8.2	-	9.2	V
Insulation resistor	IR	RVDC, 120sec	-	10	-	GΩ

● Characteristic Curves

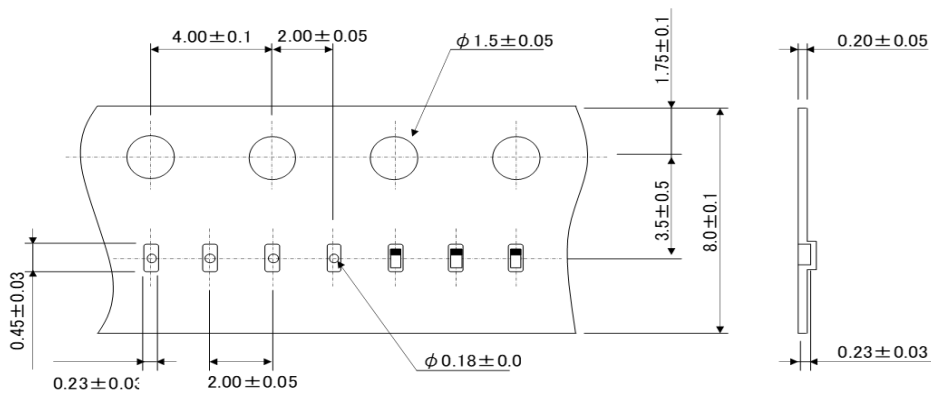


● Dimensions (SOD-992 DSN0402-2 SMC0402)



DIM	Millimeters			Inches		
	Min.	Average	Max.	Min.	Average	Max.
A1	0.001	0.005	0.009	0.000	0.000	0.000
A2	0.170	0.180	0.190	0.007	0.007	0.007
b	0.160	0.170	0.180	0.006	0.007	0.007
D	0.190	0.200	0.210	0.007	0.008	0.008
E	0.390	0.400	0.410	0.015	0.016	0.016
L	0.084	0.094	0.104	0.003	0.004	0.004
e	0.266	0.276	0.286	0.010	0.011	0.011
l1	-	0.150	-	-	0.006	-
b3	-	0.200	-	-	0.008	-
e1	-	0.260	-	-	0.010	-

● Taping (Unit:mm)



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