

# BTD1RVFLT27N102

Si Capacitor

## RASMID Data sheet

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

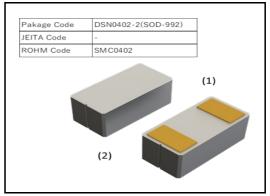
Wearable equipment

Optical transceiver

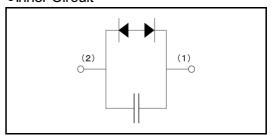
### Structure

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	Н		

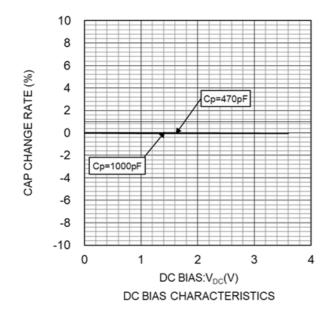
## • Absolute maximum ratings Ta=25°C

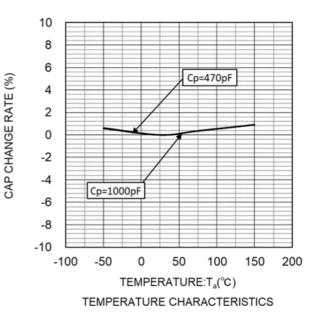
Parameter	Symbol	Conditions	Min.	Max.	Unit
Electrostatic discharge voltage	$V_{ESD}$	HBM (C=100pF R=1.5kΩ)	±8		kV
Storage temperature	T <sub>stg</sub>	ı	-55	150	°C
Operation temperature	T <sub>opr</sub>	_	-55	150	°C

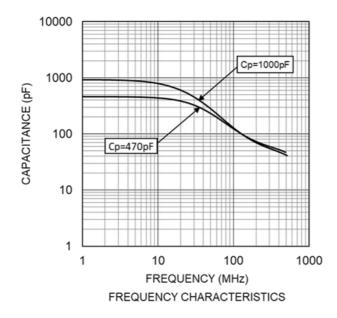
#### •Characteristics Ta=25°C

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Unit
Capacitance value	С	1	-	1000	-	рF
Capacitance tolerance	ΔC <sub>P</sub>	1	-15	-	15	%
Capacitance temperature variation	ΔC <sub>T</sub>	-55° <b>C ∼</b> 150° <b>C</b>	-	C0K	-	
Rated voltage	$RV_{DC}$	1	-	-	3.6	V
Reverse breakdown voltage	$V_{BR}$	IR=1mA	8.2	-	9.2	V
Insulation resistor	IR	RVDC, 120sec	-	10	-	GΩ

### Characteristic Curves

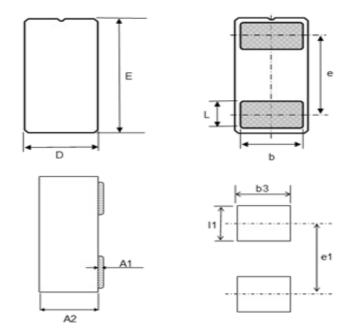






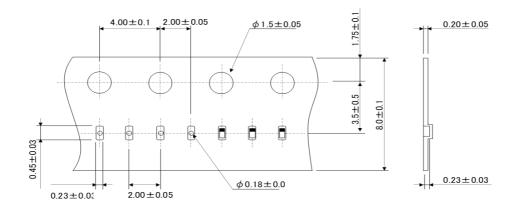
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## ● Dimensions (SOD-992 DSN0402-2 SMC0402)



DIM	Milimeters			Inches			
DIM	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	
I1	-	0.150	-	-	0.006	-	
b3	-	0.200	-	-	0.008	-	
e1	-	0.260	-	-	0.010	-	

## ● Taping (Unit:mm)



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