# **Snubber capacitor \_SNUT1**

### **Highlight Features**

- -Withstands high ripple current
- -Fixing on IGBT module installation
- -High reliability and life expectancy

### **Applications**

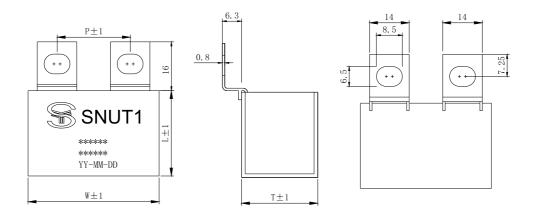
- -Frequency converters
- -Voltage converters
- -UPS
- -Industrial drives



### **Parameter**

Rated Capacitance	0.33μF ~ 6.8μF
Rated Voltage	700VDC ~ 2500VDC
Tolerance	±10% (standard), ±5% (upon request)
Dielectric	Metalized polypropylene
Dissipation factor	tanδ≤0.0006(1000Hz,25°C)
Insulation resistor (RC)	C≤0.33µF,RC≥15000S; C > 0.33µF,RC≥5000S
Operating temperature (Tw)	-40°C ~ +85°C
Hotspot temperature (Th)	≤+85°C
Storage temperature (Ts)	-40°C ~ +85°C
Altitude	≤2000m
Life expectancy	100,000 hours at Un and Th≤70°C
Test voltage between terminals	1.5Un / 10s at 25°C
Construction	Dry type, with resin sealing, Non-inductive, Anti-flaming
Case & Leading	Plastic case, Tinned copper lugs for screw fixing or soldering
Reference standards	IEC61071, UL94V-0

## **Dimensions**



Specification	С		Dimention	dv/dt	Ipeak	Irms 70℃ 100kHz	ESR 10kHz	ESL		
	μF	W	Т	Н	Р	V/µs	Α	Α	mΩ	nH
Un= 1000V.dc			·							
SNUT1SY 1000-0.47	0.47	42.5	24.5	27.5	26	1000	470	14	11	21
SNUT1SY 1000-0.68	0.68	42.5	24.5	27.5	26	1000	680	18	8	23
SNUT1SY 1000-1	1	42.5	33.5	35.5	26	900	900	20	6	20
SNUT1SY 1000-1.5	1.5	42.5	30	45	26	900	1350	25	6	19
SNUT1SY 1000-2	2	42.5	33	45	26	800	1600	27	5	16
SNUT1SY 1000-2.5	2.5	42.5	33	45	26	800	2000	27	5	16
Un= 1200V.dc										
SNUT1SY 1200-0.47	0.47	42.5	24.5	27.5	26	1200	564	14	11	21
SNUT1SY 1200-0.68	0.68	42.5	33.5	27.5	26	1200	816	19	7	21
SNUT1SY 1200-1	1	42.5	33.5	35.5	26	1100	1100	20	6	20
SNUT1SY 1200-1.5	1.5	42.5	33	45	26	1100	1650	25	4	19
SNUT1SY 1200-2	2	57.5	33	45	26	1000	2000	27	3.3	15
SNUT1SY 1200-2.5	2.5	57.5	35	50	26	1000	2500	28	3	15
Un= 1600V.dc										
SNUT1SY 1600-0.47	0.47	42.5	24.5	27.5	26	1300	611	15	10	22
SNUT1SY 1600-0.68	0.68	42.5	33.5	35.5	26	1300	884	20	7	21
SNUT1SY 1600-1	1	42.5	33	45	26	1200	1200	21	6	20
SNUT1SY 1600-1.5	1.5	57.5	30	45	26	1200	1800	23	4	19
SNUT1SY 1600-2	2	57.5	38	54	34	1100	2200	28	4	17
SNUT1SY 1600-2.5	2.5	57.5	35	50	26	1100	2750	29	4	17
Un= 2000V.dc										
SNUT1SY 2000-0.47	0.47	42.5	33.5	35.5	26	1500	705	16	10	21
SNUT1SY 2000-0.68	0.68	42.5	33	45	26	1500	1020	21	6	18
SNUT1SY 2000-1	1	57.5	30	45	26	1400	1400	24	5	17
SNUT1SY 2000-1.5	1.5	57.5	35	50	26	1400	2100	27	4	16
SNUT1SY 2000-2	2	57.5	38	54	26	1300	2600	30	4	16

Note: Customized products are available upon request.

# **Snubber capacitor \_SNUT2**

### **Highlight Features**

- -Withstands high impluse discharge current
- -Withstands high Irms
- -High reliability and life expectancy

### **Applications**

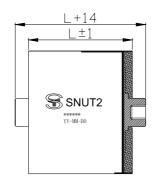
- -Frequency converters
- -Voltage converters
- -UPS
- -Industrial drives

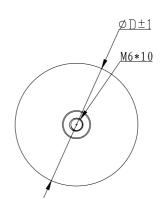


### **Parameter**

Rated Capacitance	5μF ~ 100μF ( 25°C )
Rated Voltage	800VDC ~ 1000VDC
Tolerance	±10% (standard), ±5% (upon request)
Dielectric	Metalized polypropylene
Dissipation factor	tanδ≤0.0006(1000Hz,25°C)
Insulation resistor (RC)	C≤0.33µF,RC≥15000S; C > 0.33µF,RC≥5000S
Operating temperature (Tw)	-40°C ~ +85°C
Hotspot temperature (Th)	≤+85°C
Storage temperature (Ts)	-40°C ~ +85°C
Altitude	≤2000m
Life expectancy	100,000 hours at Un and Th≤70°C
Test voltage between terminals	1.5Un / 10s at 25°C
Construction	Dry type, with resin sealing, Non-inductive, Anti-flaming
Leading	Cylindrical capacitor body with axial screw and thread connections
Reference standards	IEC61071, UL94V-0 resin filling

### **Dimensions**





# General specification table

Specification	Specification		iion (mm)	dv/dt	lpeak	Irms 40°C <100kHz	ESR 1.0kHz		
	μF	ФД	L	V/µs	Α	Α	mΩ		
Un=600Vdc									
SNUT2SY 600-20	20	37.3	40	60	1200	30	3.3		
SNUT2SY 600-30	30	45.8	50	50	1500	35	3.1		
SNUT2SY 600-40	40	44.2	50	50	2000	35	3		
SNUT2SY 600-50	50	49.2	50	50	2500	40	3		
SNUT2SY 600-60	60	53.7	50	50	3000	45	3		
SNUT2SY 600-70	70	57.9	50	50	3500	50	3		
SNUT2SY 600-80	80	54.7	60	40	3200	50	3		
SNUT2SY 600-100	100	60.9	60	40	4000	55	2.9		
Un=800Vdc									
SNUT2SY 800-10	10	41	40	80	800	35	3.1		
SNUT2SY 800-20	20	58.9	40	80	1600	50	2.9		
SNUT2SY 800-30	30	54	40	80	2400	45	2.7		
SNUT2SY 800-40	40	62	40	80	3200	55	2.5		
SNUT2SY 800-50	50	69.2	40	80	4000	60	2.1		
SNUT2SY 800-60	60	64.2	50	60	3600	55	2.3		
SNUT2SY 800-70	70	70.2	50	60	4200	60	2		
SNUT2SY 800-80	80	73.9	50	60	4800	60	2.1		
SNUT2SY 800-100	100	82.5	50	60	6000	75	1.8		
Un=1000Vdc									
SNUT2SY 1000-10	10	41.5	40	60	600	35	3.4		
SNUT2SY 1000-20	20	65.7	40	60	1200	60	3		
SNUT2SY 1000-30	30	60.6	50	60	1800	55	3.1		
SNUT2SY 1000-40	40	69.7	50	60	2400	60	2.7		
SNUT2SY 1000-50	50	68.8	60	50	2500	60	2.6		
SNUT2SY 1000-60	60	75.2	60	50	3000	70	2.2		
SNUT2SY 1000-70	70	81.2	60	50	3500	70	1.9		
SNUT2SY 1000-80	80	86.7	60	50	4000	75	1.6		
Un=1400Vdc			·						
SNUT2SY 1400-5	5	34.9	60	100	500	30	2.2		
SNUT2SY 1400-10	10	48.6	60	100	1000	40	2		
SNUT2SY 1400-20	20	68	60	100	2000	60	1.9		
SNUT2SY 1400-25	25	76	60	100	2500	65	1.8		
SNUT2SY 1400-30	30	83.2	60	100	3000	75	1.7		

Note: Customized products are available upon request.

# www.shengye.com

# **Snubber capacitor \_SNUT3**

### **Highlight Features**

- -Withstands high impluse discharge current
- -Withstands high Irms
- -High reliability and life expectancy

### **Applications**

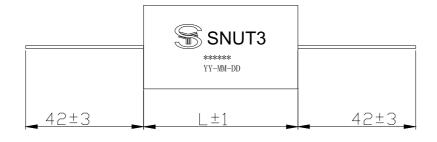
- -Frequency converters
- -Voltage converters
- -UPS
- -Industrial drives

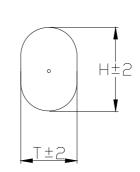


### **Parameter**

Rated Capacitance	0.1µF ~ 6.8µF ( 25°C )
Rated Voltage	700VDC ~ 3000VDC
Tolerance	±10% (standard), ±5% (upon request)
Dielectric	Metalized polypropylene
Dissipation factor	tanδ≤0.0006(1000Hz,25°C)
Insulation resistor (RC)	C≤0.33µF,RC≥15000S; C > 0.33µF,RC≥5000S
Operating temperature (Tw)	-40°C ~ +85°C
Hotspot temperature (Th)	≤+85°C
Storage temperature (Ts)	-40°C ~ +85°C
Altitude	≤2000m
Life expectancy	100,000 hours at Un and θh≤70°C
Test voltage between terminals	1.5Un / 10s at 25℃
Construction	Dry type, with resin sealing, Non-inductive, Anti-flaming
Leading	Cylindrical capacitor body with axial screw and thread connections
Reference standards	IEC61071, UL94V-0 resin filling

### **Dimensions**





# General specification table

Specification	С	Dimention(mm)				dv/dt	Ipeak	Irms 70°C	ESR	ESL
	μF	L	T	Н	d	V/µs	Α	Α	mΩ	nH
Un=1000Vdc	1	_	1	_	1	1		1		_
SNUT3SY 1000-0.33	0.33	32	15.5	26	1	1000	330	8.7	6	21
SNUT3SY 1000-0.47	0.47	32	18	27.5	1	1000	470	10.5	5	23
SNUT3SY 1000-0.68	0.68	32	23	32	1	900	612	11.7	5	25
SNUT3SY 1000-1	1	44	22	33	1.2	900	900	12.4	4	27
SNUT3SY 1000-1.5	1.5	44	27	37	1.2	900	1350	13.5	4	29
SNUT3SY 1000-2.2	2.2	44	30	43	1.2	900	1980	14.5	3	32
SNUT3SY 1000-3	3	57	29	40	1.2	800	2400	17.2	3	34
SNUT3SY 1000-3.3	3.3	57	30	41	1.2	800	2640	17.8	3	35
Un=1200Vdc										
SNUT3SY 1200-0.33	0.33	32	16	26	1	1200	396	9	7	23
SNUT3SY 1200-0.47	0.47	32	21	31	1.2	1200	564	9.5	7	23
SNUT3SY 1200-0.68	0.68	44	19	30	1.2	1200	816	11.7	6	27
SNUT3SY 1200-1	1	44	22	33	1.2	1100	1100	12.4	5	28
SNUT3SY 1200-1.5	1.5	44	29	39	1.2	1100	1650	13.5	4	30
SNUT3SY 1200-2.2	2.2	44	38	47.5	1.2	1100	2420	14.5	4	30
SNUT3SY 1200-3	3	57	34	45	1.2	1000	3000	17.2	4	37
SNUT3SY 1200-3.3	3.3	57	35	49	1.2	1000	3300	17.8	3	38
Un=1600Vdc	•		•		•	•	•		•	•
SNUT3SY 1600-0.33	0.33	32	18	27.5	1.2	1200	396	9.9	6	24
SNUT3SY 1600-0.47	0.47	37	20	28	1.2	1200	564	11.2	6	26
SNUT3SY 1600-0.68	0.68	44	20	31	1.2	1100	748	11.7	5	27
SNUT3SY 1600-1	1	44	25	37	1.2	1100	1100	12.4	5	29
SNUT3SY 1600-1.5	1.5	44	31	44	1.2	1100	1650	13.5	4	30
SNUT3SY 1600-2.2	2.2	57	30	41	1.2	1000	2200	14.5	4	34
SNUT3SY 1600-3	3	57	36	49	1.2	1000	3000	17.2	4	38
Un=2000Vdc	Un=2000Vdc									
SNUT3SY 2000-0.068	0.068	37	11	17.5	1	1600	108.8	6.9	10	30
SNUT3SY 2000-0.1	0.1	37	12	18.5	1	1600	160	8.2	9	22
SNUT3SY 2000-0.22	0.22	37	16.5	24.5	1.2	1500	330	9.1	8	27
SNUT3SY 2000-0.33	0.33	37	20	29	1.2	1500	495	10.2	8	28
SNUT3SY 2000-0.47	0.47	37	23	35	1.2	1500	705	12.4	7	29
SNUT3SY 2000-0.68	0.68	44	25	37	1.2	1400	952	14.2	6	32
SNUT3SY 2000-1	1	57	24	36	1.2	1400	1400	14.5	5	35
SNUT3SY 2000-1.5	1.5	57	30	43	1.2	1300	1950	14.5	5	37
SNUT3SY 2000-2.2	2.2	57	37	50	1.2	1300	2860	17.8	5	39

Note: Customized products are available upon request.