

SURFACE MOUNT

- Standard footprints
- 125°C operation (with de-rating)

The SHJ series compliments the well-known SH for users requiring surface-mount.

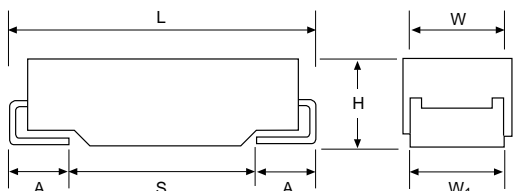
All product is supplied on plastic embossed tape as standard in full reel sizes.

Please note: as technology improves size reduction may be possible. If in doubt please call Sales office.

Low profile available.

Temperature	-55 to +125°C (with voltage de-rating)
Life Time	2,000 Hours @ +85°C
Tolerance	± 10% standard (± 20% available)
Leakage Current	<0.01CV or 0.5µA whichever larger (>5 mins.)

OUTLINE DRAWING



Code	EIA	W+0.2 Code	L±0.2 -0.1	H+0.2	W ₁ ±0.2 -0.1	A+0.3	S Min. -0.2
A	3216	1.6	3.2	1.6	1.2	0.8	1.1
B	3528	2.8	3.5	1.9	2.2	0.8	1.4
C	6032	3.2	6.0	2.6	2.2	1.3	2.9
D	7343	4.3	7.3	2.9	2.4	1.3	4.4
E	7343H	4.3	7.3	4.1	2.4	1.3	4.4
V		6.1	7.3	3.45 ±0.3	3.1	1.4	3.4

All dimensions in mm.

W1 dimension applies to the termination width for A dimensional area only. Pad Stand-off is 0.1 ± 0.1

REEL SIZES

Case	
A	2,000
B	2,000
C	500
D	500
E	400

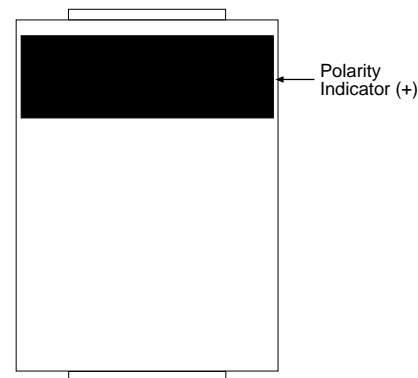
ORDERING INFORMATION

SHJ	B	10	16	K
Dubilier Tant SMT	Case size	µf value	Voltage	Tolerance
				K = 10%
				M = 20%

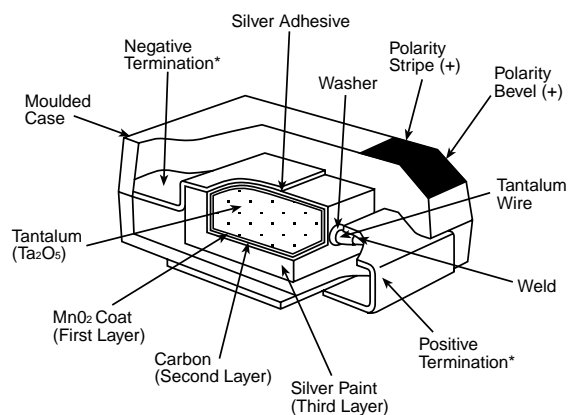
TANTALUM CHIP SHJ



POLARITY



CONSTRUCTION DIAGRAM



*Termination Solder Coating 100 Sn

RANGE & CASE CODES

Capacitance μF	Rated Voltage DC							
	4V std/ext	6.3V std/ext	10V std/ext	16V std/ext	20V std/ext	25V std/ext	35V std/ext	50V std/ext
0.1							A	A
0.15							A	B/A
0.22							A	B/A
0.33							A	B
0.47						A	B/A	C/B
0.68					A	A	B/A	C
1.0				A	A	A	B/A	C
1.5			A	A	A	B/A	C/B	D/C
2.2		A	A	B/A	B/A	B	C/B	D/C
3.3	A	A	A	B/A	B/A	C/B	C/B	D
4.7	A	A	B/A	B/A	C/B/A	C/B	D/C	D
6.8	A	B/A	B/A	C/B/A	C/B	D/C	D/C	E/D
10	B/A	B/A	C/B/A	C/B	C/B	D/C	D	E
15	B/A	C/B/A	C/B	C/B	D/C	D/C	D	
22	C/B/A	C/B	C/B	D/C	D/C	D	E	
33	C/B	C/B	D/C	D/C	D	E/D	E	
47	D/C/B	D/C/B	D/C	D	E/D	E		
68	D/C	D/C	D/C	D	E			
100	D/C	D/C	D	E/D	E			
150	D	D	E/D	E				
220	E/D	E/D	E/D	E				
330	E/D	E/D	E					
470	E	E						

RATINGS & NUMBER REFERENCE

Part No.	Case size	Capacitance μF max	IL (μA)	DF % max	ESR max (Ω) @100KHz
4 volts					
SHJA3.34	A	3.3	0.5	6	9.0
SHJA4.74	A	4.7	0.5	6	7.5
SHJA6.84	A	6.8	0.5	6	6.5
SHJA104	A	10	0.5	6	6.0
SHJA154	A	15	0.6	6	4.0
SHJA224	A	22	0.9	6	3.5
SHJB104	B	10	0.5	6	4.0
SHJB154	B	15	0.6	6	3.0
SHJB224	B	22	0.9	6	2.5
SHJB334	B	33	1.4	6	2.8
SHJB474	B	47	1.9	6	2.4
SHJC224	C	22	1.4	6	2.3
SHJC334	C	33	1.9	6	2.0
SHJC474	C	47	1.9	6	1.8
SHJC684	C	68	2.7	6	1.6
SHJC1004	C	100	4	6	1.3
SHJD474	D	47	1.9	6	1.8
SHJD684	D	68	2.7	6	1.1
SHJD1004	D	100	4.0	6	0.9
SHJD1504	D	150	6.0	6	0.9
SHJD2204	D	220	8.8	8	0.9
SHJD3304	D	33	21	08	0.8
SHJD6804	D	68	27	12	0.9
SHJE6804	E	68	27	12	0.6
SHJE4704	E	470	29.6	8	0.9

Part No.	Case size	Capacitance μF max	IL (μA)	DF % max	ESR max (Ω) @100KHz
6.3 volts					
SHJA 2.26.3	A	2.2	0.5	6	9.0
SHJA 3.36.3	A	3.3	0.5	6	7.0
SHJA156.3	A	15	1	6	3.5
SHJB 6.86.3	B	6.8	0.5	6	4.0
SHJD3306.3	D	330	20.8	8	0.9
SHJE 2206.3	E	220	13.2	8	0.9
SHJB 106.3	B	10	0.6	6	3.0
SHJC 156.3	C	15	1.0	6	2.5
SHJC 226.3	C	22	1.4	6	2.0
SHJC1006.3	C	100	6.3	6	1.4
SHJD 476.3	D	47	3.0	6	1.1
SHJD 686.3	D	68	4.3	6	0.9
SHJD2206.3	D	220	13.9	8	0.9
SHJE 330 6.3	E	330	19.8	8	0.9
SHJB336.3	B	33	2.1	6	2.2
SHJB476.3	B	47	3	6	2
SHJE4706.3	E	470	29.6	8	0.9

RATINGS & NUMBER REFERENCE (CONTINUED)

Part No.	Case size	Capacitance μ F max	IL (μ A)	DF % max	ESR max (Ω) @100KHz
10 volts					
SHJA 1.510	A	1.5	0.5	6	10.0
SHJA 2.210	A	2.2	0.5	6	7.0
SHJA6.810	A	6.8	0.7	6	4
SHJA1010	A	10	1	6	3
SHJB 4.710	B	4.7	0.5	6	4.0
SHJB 6.810	B	6.8	0.7	6	3.0
SHJC 1010	C	10	1.0	6	2.5
SHJC 1510	C	15	1.5	6	2.0
SHJC6810	C	68	6.8	6	0.9
SHJD 3310	D	33	3.3	6	1.1
SHJD22010	D	220	22	8	0.9
SHJE33010	E	330	33	8	0.9
SHJD 4710	D	47	4.7	6	0.9
SHJE 15010	E	150	15.0	6	0.9
SHJE 22010	E	220	22.0	8	0.9
SHJC4710	C	47	4.7	6	1.2
SHJD15010	D	150	15	8	0.9
16 volts					
SHJA 116	A	1.0	0.5	4	11.0
SHJA 1.516	A	1.5	0.5	6	8.0
SHJA4.716	A	4.7	0.8	6	4
SHJA6.816	A	6.8	1.1	6	2.5
SHJB 2.216	B	2.2	0.5	6	5.5
SHJB 3.316	B	3.3	0.5	6	4.5
SHJB 4.716	B	4.7	0.8	6	3.5
SHJB1516	B	15	2.4	6	2.5
SHJC 6.816	C	6.8	1.1	6	2.5
SHJC 1016	C	10	1.6	6	2.0
SHJC3316	C	33	5.3	6	1.5
SHJD 2216	D	22	3.5	6	1.1
SHJD 3316	D	33	5.3	6	0.9
SHJD10016	D	100	16	6	0.9
SHJE 10016	E	100	16.0	6	0.9
SHJE15016	E	150	24	8	0.9
SHJE22016	E	220	35.2	8	0.9
20 volts					
SHJA 0.6820	A	0.68	0.5	4	12.0
SHJA 120	A	1.0	0.5	4	9.0
SHJA2.220	A	2.2	0.5	6	5.3
SHJA3.320	A	3.3	0.7	6	4.5
SHJA4.720	A	4.7	1	6	4
SHJB 2.220	B	2.2	0.5	6	3.5
SHJB 3.320	B	3.3	0.7	6	3.0
SHJB6.8	B	6.8	1.4	6	2.5
SHJC 4.720	C	4.7	1.0	6	2.8
SHJB1020	B	10	2	6	2.1
SHJC 6.820	C	6.8	1.4	6	2.0
SHJD 1520	D	15	3.0	6	1.1
SHJC2220	C	22	4.4	6	1.6
SHJD 2220	D	22	4.4	6	0.9
SHJD 3320	D	33	6.6	6	0.9
SHJD4720	D	47	9.4	6	0.9
SHJE 4720	E	47	9.4	6	0.9
SHJE 6820	E	68	13.6	6	0.9
SHJE10020	E	100	20	8	0.9

Part No.	Case size	Capacitance μ F max	IL (μ A)	DF % max	ESR max (Ω) @100KHz
25 volts					
SHJA 0.4725	A	0.47	0.5	4	14.0
SHJA 0.6825	A	0.68	0.5	4	10.0
SHJA1.525	A	1.5	0.5	6	7.5
SHJB 1.525	B	1.5	0.5	6	5.0
SHJB 2.225	B	2.2	0.6	6	4.5
SHJB4.725	B	4.7	1.2	6	2.8
SHJC 3.325	C	3.3	0.9	6	2.8
SHJC 4.725	C	4.7	1.2	6	2.4
SHJC1525	C	15	3.8	6	1.5
SHJD 6.825	D	6.8	1.7	6	1.4
SHJD 1025	D	10	2.5	6	1.2
SHJD 1525	D	15	3.8	6	1.0
SHJD3325	D	33	6.6	6	0.9
SHJE 3325	E	33	8.3	6	0.9
SHJE4725	E	47	11.7	8	0.9
35 volts					
SHJA 0.135	A	0.1	0.5	4	24.0
SHJA 0.1535	A	0.15	0.5	4	21.0
SHJA 0.2235	A	0.22	0.5	4	18.0
SHJA 0.3335	A	0.33	0.5	4	15.0
SHJA135	A	1	0.5	4	7.5
SHJB 0.4735	B	0.47	0.5	4	10.0
SHJB 0.6835	B	0.68	0.5	4	8.0
SHJB 135	B	1.0	0.5	4	6.5
SHJB3.335	B	3.3	1.2	6	3.5
SHJC6.835	C	6.8	2.4	6	1.8
SHJC 1.535	C	1.5	0.5	6	4.5
SHJC 2.235	C	2.2	0.8	6	3.5
SHJC 3.335	C	3.3	1.2	6	2.5
SHJD 4.735	D	4.7	1.6	6	2.2
SHJD 6.835	D	6.8	2.4	6	1.3
SHJD 1035	D	10	3.5	6	1.0
SHJE 2235	E	22	7.7	6	0.9
SHJE3355	E	33	8.3	6	0.9
50 volts					
SHJA 0.150	A	0.1	0.5	4	22.0
SHJB 0.1550	B	0.15	0.5	4	17.0
SHJB 0.2250	B	0.22	0.5	4	14.0
SHJB 0.3350	B	0.33	0.5	4	12.0
SHJB0.4750	B	0.47	0.5	4	10
SHJC 0.4750	C	0.47	0.5	4	8.0
SHJC 0.6850	C	0.68	0.5	4	7.0
SHJC 150	C	1.0	0.5	4	5.5
SHJC1.550	C	1.5	0.8	6	
SHJC2.250	C	2.2	1.1	6	3.2
SHJD 1.550	D	1.5	0.8	6	4.0
SHJD 2.250	D	2.2	1.1	6	2.5
SHJD 3.350	D	3.3	1.7	6	2.0
SHJD 4.750	D	4.7	2.4	6	1.4
SHJE6.850	E	6.8	3.4	6	
SHJE1050	E	10	5	8	

All technical data relates to an ambient temperature of +25°C measured at 120Hz, 0.5V RMS unless otherwise stated.

DUBILIER RESERVES THE RIGHT TO SUPPLY HIGHER VOLTAGE RATINGS IN THE SAME CASE SIZE WITH THE SAME RELIABILITY STANDARDS.