Apr 2022

Polymer Tantalum Capacitor

SAMSUNG
ELECTRO-MECHANICS

SAMSUNG

We, Samsung, declare that our Polymer Tantalum Capacitor is produced in accordance with EU RoHS directive.

1. RoHS compliance and restriction of Br

The following restricted materials are not used in packaging materials as well as products incompliance with the law and restriction.

- Cd, Pb, Hg, Cr6+, As, Br and the compounds, PCB, asbestos
- Bromic materials: PBBs, PBBs, PBDO, PBDE, PBB
- Phthalate materials: DEHP, BBP, DBP, DIBP

2. No use of materials breaking Ozone layer

The following ODS materials are not used in our fabrication process.

- ODS materials: Freon, Haron, 1-1-1 TCE, CCl4, HCFC

If you want more information, please visit the website of Samsung Electro-Mechanics.
http://www.samsungsem.com

Contents

Guidelines for Using Polymer Tantalum Capacitor

Operational Attentions

Operating Voltage

① It is recommended to use within 80% of the rated voltage.
② In a circuit in which instantaneous current flows by switching or charging and discharging, a resistor of 3Ω or more per 1V of the applied voltage is connected in series.

Reverse Voltage

① Since the solid electrolytic tantalum chip capacitor has polarity, the application of reverse voltage should be avoided.
② The sum of the DC voltage and the negative peak ripple voltage should not allow a voltage reversal.

Ripple Voltage

① The sum of DC voltage and peak ripple voltage should not exceed the rated voltage.
② This is based on an ambient temperature of 25℃.

Restriction of Rapid Charge and Discharge

① Rapid charge and discharge are restricted (for maintenance of high-proof reliability). A protection circuit is recommended for when a rapid charge or discharge causes excessive rush current because this is main cause of short circuit and large leakage current.
② Use protection circuits when the rush current value exceeds 20A.
③ Be sure to insert a protection resistor of about 1KΩ for charge and discharge when measuring the leakage current.

Prohibited Circuits

Polymer tantalum capacitors should not be used in the following circuits.

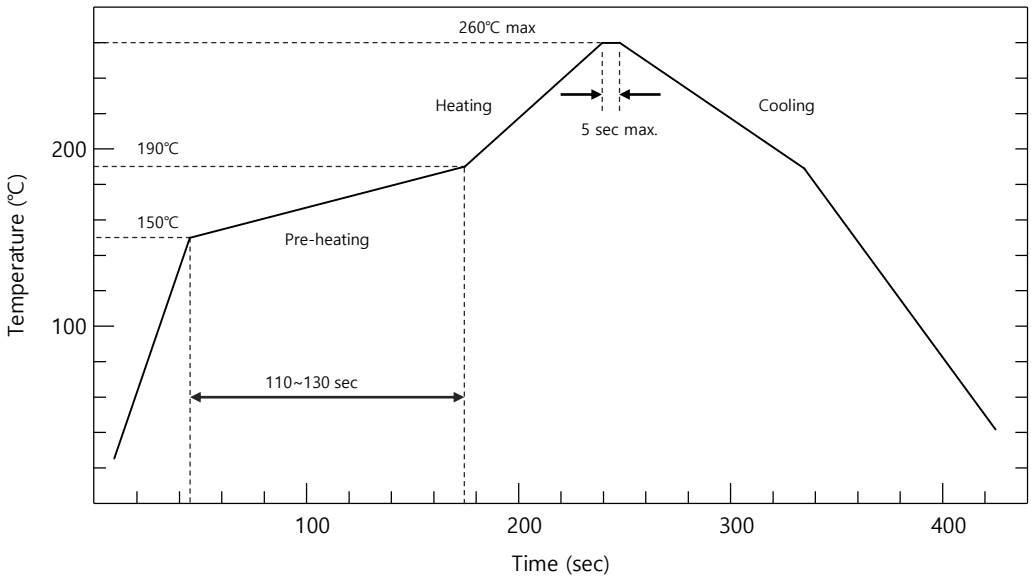
① High impedance voltage retention circuits
② Time constant circuits
③ Coupling circuits
④ Circuit greatly affected by leakage current and ESR
⑤ Circuit in which two or more polymer tantalum capacitors are connected in series to increase withstand voltage

Soldering

Reflow Soldering

① Polymer tantalum capacitors must be attached to the substrate according to an appropriate method to prevent unexpected defects in the assembly process.
② Reflow soldering is recommended to attach the tantalum capacitor.
③ The assembly substrate must be preheated before reflow soldering is performed.
④ As shown below, it should not exceed 260℃ and 5 seconds, and it is recommended to keep the number of reflow repetitions less than 3 times.

Recommended Reflow Profile

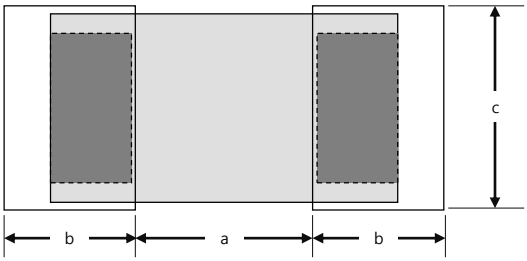


Hand Soldering

When mounting using a soldering iron, make sure that it does not directly touch the chip.
The recommended conditions are as follows.

① Power: 30W
② Iron core temperature: 350°C Max.
③ Time: 3 seconds or less

Land Dimension



Size	PCF, PBL Series			PFT Series		
	a	b	c	a	b	c
1005	0.5	0.35	0.4	0.5	0.45	0.4
1608	0.8	0.55	0.6	0.8	0.6	0.6
2012	1.0	0.7	0.9	1.0	0.8	0.9
3216	1.6	1.0	1.2	1.6	1.1	1.2
3528	1.9	1.0	2.2	1.9	1.1	2.2
7343	4.7	1.5	2.4	4.7	1.6	2.4

Storage

When storing the polymer tantalum capacitor, it is necessary to maintain an environment capable of preventing deterioration of solderability and moisture absorption. It should be kept sealed in the Moisture Barrier Bag under 5~40 °C and 20~60% RH conditions. Do not leave the remaining amount after opening. If the remaining amount is inevitably left, it should be put in MBB and resealed.

The polymer tantalum capacitor must follow the following usage conditions after opening.

Level	Floor Life (Out of Bag)	
3	Time	Condition
	168 hrs	≤30℃ / 60%RH

Polymer tantalum capacitors should not be stored in the following places.

① A place where direct sunlight shines
② A damp place with water, dew, condensation, oil, etc.
③ Places filled with toxic gases (e.g., hydrogen sulfide, sulfur dioxide, nitrous acid, chlorine, ammonia, etc.)
④ A place that can be exposed to ozone, ultraviolet rays, radiation, etc.;

Part Numbering

TC	PCF	0J	226	M	J	A	R	0030
1	2	3	4	5	6	7	8	9

1. PRODUCT NAME

TC = Tantalum Capacitors

2. SERIES

3. RATED VOLTAGE

Code	0D	0E	0G	0J	1A	1C	1D	1E	1V
R.V (V)	2	2.5	4	6.3	10	16	20	25	35

※ The rated voltages not in the table above are indicated by double digits number.

4. CAPACITANCE

Code	Pico Farad	Micro Farad	Code	Pico Farad	Micro Farad
106	$10x10^6$	10	107	$10x10^7$	100

※ First two digits represent significant figures and third digit represents multiplier in pF.

5. CAPACITANCE TOLERANCE

K = ±10%, M = ±20%

6. CASE SIZE

7. PACKAGING

A = 7 inches, C = 13 inches

8. TAPING OR SPECIAL CODE

R = Polarity Marking on the Opposite Side of Sprocket Hole

9. ESR SPECIFICATION AND/OR THICKNESS

4 Numbers ; ESR Spec (mOhm)
(ex) 0100 = 100 mOhm, 0050 = 50 mOhm

3 Numbers + 1 Character ; ESR Spec + H code
3 Numbers = ESR Spec (mOhm)
First two digits represent significant figures.
Third digit represents decimal multiple (x 10^n, n; integer).
1 Character = H Code (max Thickness in mm)
(ex) 500S = 50 (50 x 10^0) mOhm, max 1.0mm
201T = 200 (20 x 10^1) mOhm, max 0.9mm

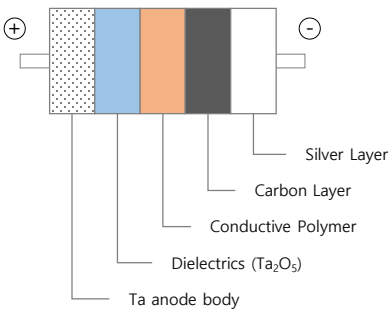
H Code Reference

Code	I	J	K	L	M	N	O	P	Q	R
Tmax	2.0	1.9	1.8	1.7	1.6	1.5	1.4	1.3	1.2	1.1
Code	S	T	U	W	X	Y	A	B	Z	
Tmax	1.0	0.9	0.8	0.7	0.6	0.5	0.55	0.65	0.95	

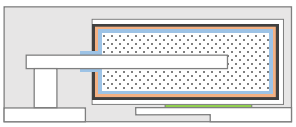
Product Information

Structure

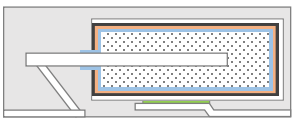
Structure of Element



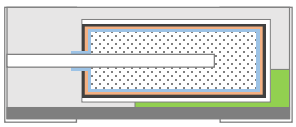
PCF Series



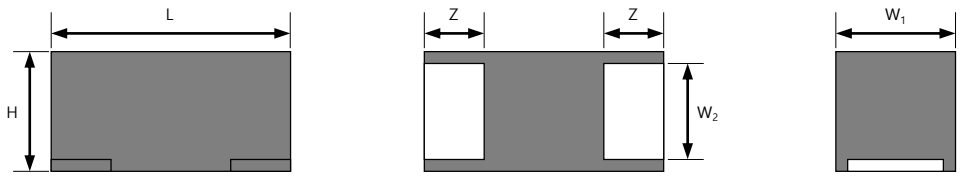
PBL Series



PFT Series



Dimension



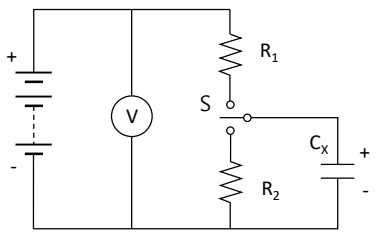
Case Code	EIA Code	H code	L	W_1	W_2	H	Z
K	1608-09		1.6±0.2	0.8±0.2	0.6±0.1	0.8±0.1	0.4±0.1
J	1608-10		1.6±0.2	0.8±0.2	0.6±0.1	0.9±0.1	0.4±0.1
P	2012-06	B	2.0±0.2	1.25±0.2	0.9±0.1	0.65max	0.5±0.2
O	2012-08		2.0±0.2	1.25±0.2	0.9±0.1	0.7±0.1	0.5±0.2
N	2012-09		2.0±0.2	1.25±0.2	0.9±0.1	0.8±0.1	0.5±0.2
R	2012-10		2.0±0.2	1.25±0.2	0.9±0.1	0.9±0.1	0.5±0.2
P	2012-12		2.0±0.2	1.25±0.2	0.9±0.1	1.1±0.1	0.5±0.2
A	3216-10	S	3.2±0.2	1.6±0.2	1.2±0.1	0.9±0.1	0.8±0.2
S	3216-12		3.2±0.2	1.6±0.2	1.2±0.1	1.1±0.1	0.8±0.2
A	3216-18		3.2±0.2	1.6±0.2	1.2±0.1	1.6±0.2	0.8±0.2
B	3528-10	S	3.5±0.2	2.8±0.2	2.2±0.1	0.9±0.1	0.8±0.2
T	3528-12		3.5±0.2	2.8±0.2	2.2±0.1	1.1±0.1	0.8±0.2
B	3528-20		3.5±0.2	2.8±0.2	2.2±0.1	1.9±0.1	0.8±0.2
G	7343-15		7.3±0.2	4.3±0.2	2.4±0.1	1.4±0.1	1.3±0.2
W	7343-20		7.3±0.2	4.3±0.2	2.4±0.1	1.9±0.1	1.3±0.2
D	7343-30		7.3±0.2	4.3±0.2	2.4±0.1	2.8±0.2	1.3±0.2

Ratings & Part Number Reference

Please refer to the web site below for detailed specifications for each model.

http://product.samsungsem.com

Characteristics Performance

ITEM	Characteristics	Test Condition
Surge Voltage	· Change in capacitance : within 20% of initial value · Dissipation Factor : within initial limit · Leakage Current : within 3 x initial limit	· Applied voltage: Surge voltage · Temperature: 85℃ · Test Method Charging: 30 ± 5 sec Discharging: 5.5 ± 0.5 min Repetition: 1,000 cycles  R1: Protective resistor (33Ω) R2: Discharge resistor (33Ω) Ⓥ: DC voltmeter or electronic voltmeter S: Switch C_X: Test capacitor
Load life (Endurance)	· Change in capacitance : within -20 ~ +35% of initial value[1] : within -30 ~ +35% of initial value[2] · Dissipation Factor : within 1.5 x initial limit at 85℃ : within 3 x initial limit at 105℃ · Leakage Current : within 1.5 x initial limit · No mechanical damage	· Applied voltage - 85℃ warranty model Rated voltage @ 85℃ Derated voltage @ 105℃ - 105℃ warranty model Rated voltage · Time: 2,000 (+72/-0) hrs · Measurement shall be made after more than 4 hours of cooling time at room temperature.
Moisture resistance	· Change in capacitance : within -20 ~ +35% of initial value[1] : within -30 ~ +35% of initial value[2] · Dissipation Factor : within 1.5 x initial limit · Leakage Current : within 3 x initial limit · No mechanical damage	· Temperature: 40 ± 2℃ · Humidity: 90 ~ 95% RH · Applied voltage: No load · Duration: 500 (+8/-0) hrs · Measurement shall be made after more than 4 hours of cooling time at room temperature.

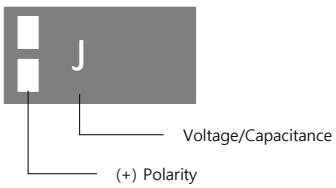
[1] Category 1
[2] Category 2

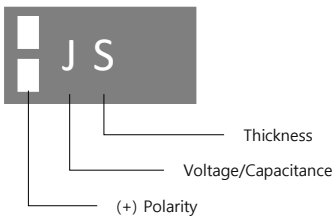
Applied voltage for reliability test

Rated Voltage (85℃)	2.5	4	6.3	8	10	15	16	18	20	25	35	38
Surge Voltage (85℃)	3.3	5.2	8.2	10.4	13.0	19.5	20.8	23.4	26.0	32.5	45.5	49.4
Derated Voltage (105℃)	2.0	3.2	5.0	6.4	8.0	12.0	12.8	14.4	16.0	20.0	28.0	30.4

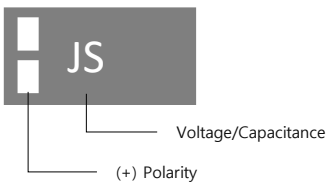
Marking

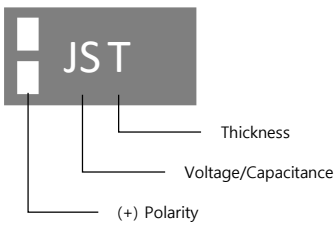
1608 size





2012 size





Marking Code References

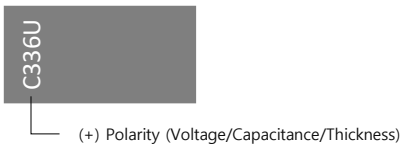
1608 size

Capacitance \ Voltage	2.5	4	6.3	10	16	20
22			J			

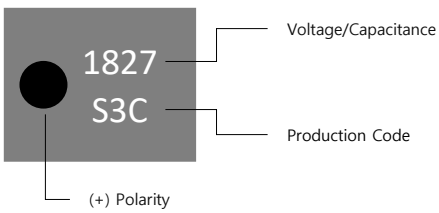
2012 size

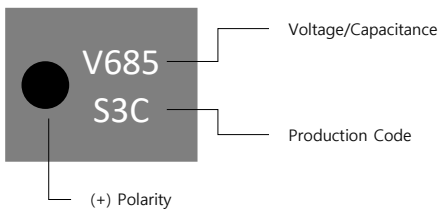
Capacitance \ Voltage	6.3	8	25	38
1.0				XA
3.3			EN	
4.7			ES	
22		KJ		
33		KN		
47	JS	KS		

3216 size

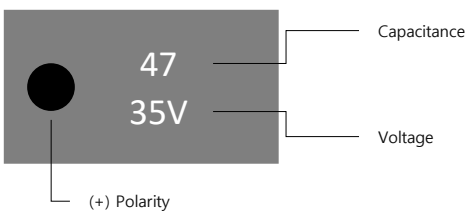


3528 size





7343 size

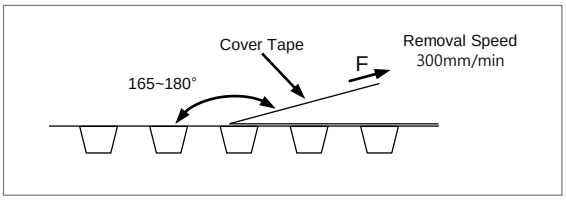


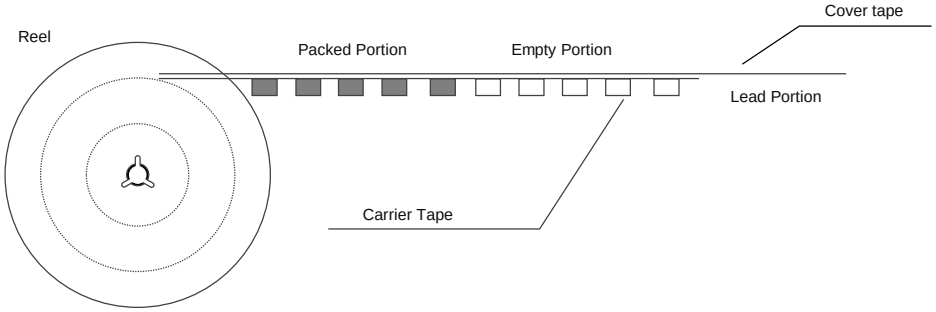
Packaging Specification

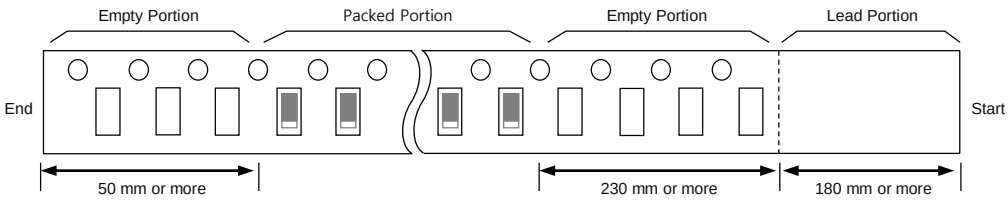
Packaging

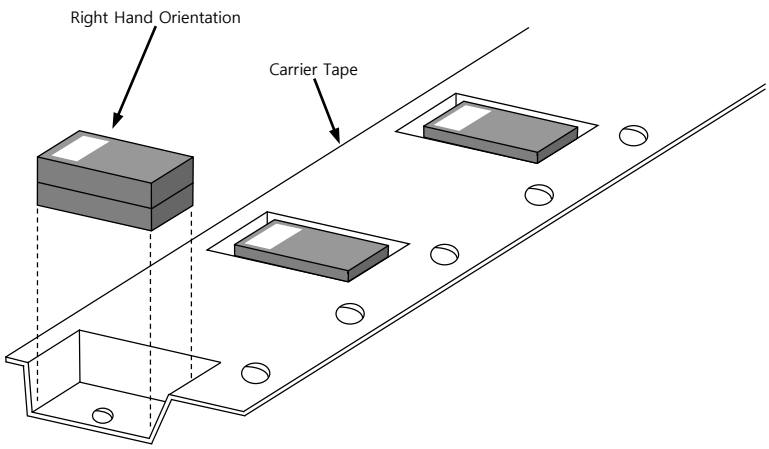
The tantalum chip capacitors shall be packaged in a tape and reel form for effective use.

Carrier tape: Semitransparent embossed plastic
Cover tape: Attached by heating press, polyester

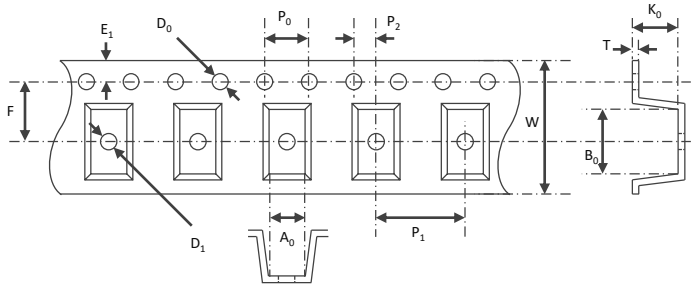








Carrier Tape Dimension

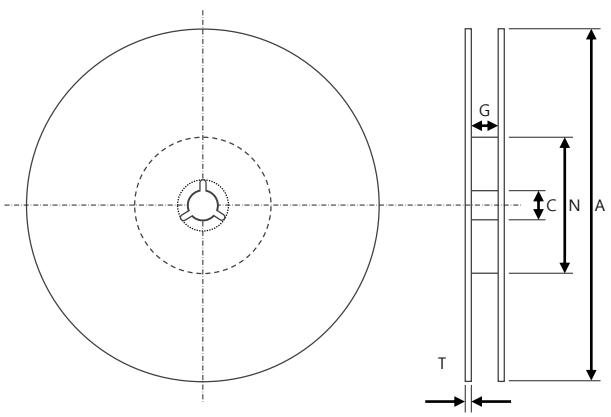


[Unit: mm]

EIA Code	Chip Thickness	Case Code	W (+0.3/-0.1)	P_1 (±0.1)	E_1 (±0.1)	F (±0.05)	D_0 (+0.1/-0)	D_1 (+0.25/-0)	P_0 (±0.1)	P_2 (±0.05)	A_0 (±0.1)	B_0 (±0.1)	K_0 (±0.1)	T (±0.02)
1608	0.9	J, K	8.0	4.0	1.75	3.5	1.5	0.5	4.0	2.0	0.98	1.8	1.0	0.23
	1.0	J	8.0	4.0	1.75	3.5	1.5	0.6	4.0	2.0	1.1	1.9	1.1	0.23
2012	0.65	P	8.0	4.0	1.75	3.5	1.5	1.0	4.0	2.0	1.5	2.34	0.75	0.23
	0.8~1.0	O, N, R	8.0	4.0	1.75	3.5	1.5	1.0	4.0	2.0	1.5	2.34	1.1	0.23
3216	1.0~1.2	A, S	8.0	4.0	1.75	3.5	1.5	1.0	4.0	2.0	1.85	3.48	1.4	0.23
	1.6~1.8	A	8.0	4.0	1.75	3.5	1.5	1.0	4.0	2.0	1.85	3.48	1.85	0.27
3528	0.9~1.2	B, T	8.0	4.0	1.75	3.5	1.5	1.0	4.0	2.0	3.2	3.83	1.4	0.23
	2.0	B	8.0	4.0	1.75	3.5	1.5	1.0	4.0	2.0	3.2	3.83	2.17	0.23
7343	1.5~2.0	G, W	12.0	8.0	1.75	5.5	1.5	1.5	4.0	2.0	4.67	7.67	2.1	0.26¶

¶ Tolerance: ±0.03

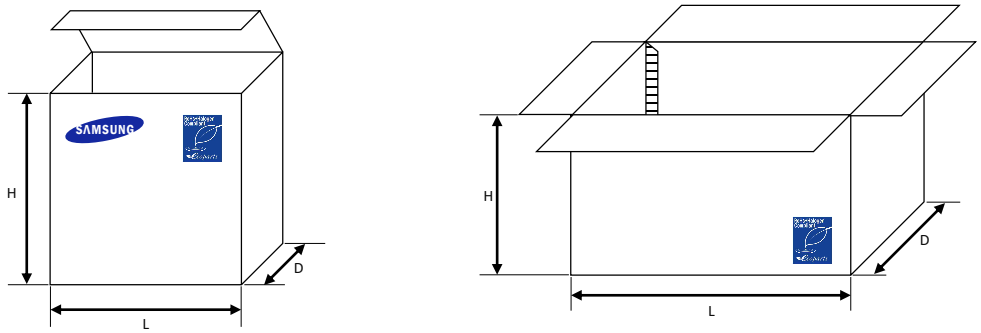
Reel Dimension



[Unit: mm (inch)]

Reel	Tape Width	A +0/-3.0	N Min.	C ±0.3	G ±0.5	T ±0.2
7 inch	8mm	180 (7)	60 (2.362)	13 (0.512)	9 (0.354)	1.2 (0.047)
	12mm	180 (7)	60 (2.362)	13 (0.512)	13 (0.512)	1.2 (0.047)
13 inch	8mm	330 (13)	80 (3.150)	13 (0.512)	9 (0.354)	2.0 (0.079)
	12mm	330 (13)	80 (3.150)	13 (0.512)	13 (0.512)	2.0 (0.079)

Packaging Box



[Unit: mm]

Reel Size	Item	L	D	H
7 inch	Inner box	230±2	68±2	221±2
	Outer box	475±5	355±5	229±5
13 inch	Inner box	335±3	90±3	342±3
	Outer box	370±5	340±5	350±5

Packaging Quantity

[Unit: pcs]

Size			Case Code	Reel	
EIA	Inch	Hmax, mm		7 inch	13 inch
1608-09	0603	0.9	K	4,000	-
1608-10	0603	1.0	J	4,000	-
2012-06	0805	0.65	P	4,000	-
2012-08	0805	0.8	O	3,000	-
2012-09	0805	0.9	N	3,000	-
2012-10	0805	1.0	R	3,000	-
3216-10	1206	1.0	A	3,000	-
3216-12	1206	1.2	S	3,000	-
3216-18	1206	1.8	A	2,000	-
3528-10	1411	1.0	B	3,000	-
3528-12	1411	1.2	T	3,000	-
3528-20	1411	2.0	B	2,000	-
7343-15	2917	1.5	G	1,000	4,000
7343-20	2917	2.0	W	1,000	3,000
7343-30	2917	3.0	D	500	2,000

Disclaimer & Limitation of Use and Applications

Disclaimer

The products listed as follows are NOT designed and manufactured for any use and applications set forth below. Please note that any misuse of the products deviating from products specifications or information provided in this Spec sheet may cause serious property damages or personal injury.

① Aerospace/Aviation equipment
② Automotive of Transportation equipment (vehicles, trains, ships, etc.)
③ Military equipment
④ Atomic energy-related equipment
⑤ Undersea equipment
⑥ Any other applications with the same as or similar complexity or reliability to the applications

Limitation

Please contact us with usage environment information such as voltage, current, temperature, or other special conditions before using our products for the applications listed below. The below application conditions require especially high reliability products to prevent defects that may directly cause damages or loss to third party's life, body or property.
If you have any questions regarding this 'Limitation', you should first contact our sales personnel or application engineers.

① Medical equipment
② Disaster prevention/crime prevention equipment
③ Power plant control equipment
④ Traffic signal equipment
⑤ Data-processing equipment
⑥ Electric heating apparatus, burning equipment
⑦ Safety equipment
⑧ Any other applications with the same as or similar complexity or reliability to the applications

Quality System Certification

Certification Lists of Philippines Factory


bsi.

Certificate of Registration

QUALITY MANAGEMENT SYSTEM - IATF 16949:2016

This is to certify that:

Samsung Electro-Mechanics
Philippines Corp.
Block 5 & 6
Calamba Premiere International Park
Brgy. Prinza Batino
Calamba City Laguna
4027
Philippines

operates a Quality Management System which complies with the requirements of IATF 16949:2016 for the following scope:

The design and manufacture of multi-layer ceramic capacitors, tantalum chip capacitors, electro-magnetic compatibility components including inductor, bead and EMI (electro-magnetic interference) filter and chip resistors.

For and on behalf of BSI:

Hunuging Director, NE Asia Region - Peter Yu

BSI Certificate Number: 91430-005
IATF Number: 0419495

Pages: 1 of 2

Certification Date: 2021-08-17 Latest Issue: 2021-08-17 Expiry Date: 2024-08-16

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IATF 16949

Authority
BSI

Number
IATF_91430-005

Date
2021-08-17

Validity
2024-08-16


IEC QUALITY ASSESSMENT SYSTEM (IECQ)
covering Electronic Components,
Assemblies, Related Materials and Processes

IECQ Certificate of Conformity
Hazardous Substance Process Management

IECQ Certificate No.: IECQ-H ULTW 10.0016 Issue No.: 7 Status: Current
Supersedes: IECQ-H ULTW 10.0016 Issue Date: 2019/07/02 Orig Issue: 2010/07/05
CB Reference No.: 20009350 QC Expiration: 2022/07/04

Applicable to:

* European Directive 2011/65/EU ("RoHS – Restriction of the use Of certain Hazardous Substances") in electrical and electronic equipment. Including all published amendments
* Other identified Hazardous Substances

Samsung Electro-Mechanics Philippines Corp.
Block 5, Calamba Premiere Intl Park Barangay Batino,
Calamba City, Laguna
Philippines

The organization has developed and implemented Hazardous Substance Process Management procedures and related processes which have been assessed and found to be in conformity with the applicable requirements for IECQ HSPM organization approval which is in accordance with the Basic Rules IECQ 01 and Rules of Procedure IECQ 03-5 "IECQ Hazardous Substances Process Management" of the IEC Quality Assessment System for Electronic Components (IECQ), and with reference to the IECQ Specification:

* IECQ QC 080000:2017 - Hazardous Substance Process Management System Requirements

This Certificate is applicable to all electronic components, assemblies, related materials and processes for the following scope of activities:

The design and manufacture of multi-layer ceramic capacitors, tantalum capacitors, crystal oscillators, chip resistor and electro-magnetic compatibility components.

Issued by the Certification Body: DQS Group - DQS Taiwan Inc.

8th Fl., 23, Yuan Huan West Road,
Feng Yuan Dist., Taichung City
Taiwan

Authorized person:
Rock Chang

QC 080000

Authority
IECQ

Number
IECQ-H_ULTW_10.0016

Date
2019-07-02

Validity
2022-07-04


bsi.

Certificate of Registration

ENVIRONMENTAL MANAGEMENT SYSTEM - ISO 14001:2015

This is to certify that:

Samsung Electro-Mechanics
Philippines Corp.
Block 5 & 6
Calamba Premiere International Park
Brgy. Prinza Batino
Calamba City Laguna
4027
Philippines

Holds Certificate No: EMS 77354

and operates an Environmental Management System which complies with the requirements of ISO 14001:2015 for the following scope:

The manufacture of multi-layer ceramic capacitors, tantalum chip capacitors, crystal units including crystal oscillators, electro-magnetic compatibility components including inductor and chip resistors.

For and on behalf of BSI:

Chris Cheung, Head of Compliance & Risk - Asia Pacific

Original Registration Date: 2003-08-14 Effective Date: 2021-07-13
Latest Revision Date: 2021-07-06 Expiry Date: 2024-07-12

Page: 1 of 1

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ISO 14001

Authority
BSI

Number
EMS_77354

Date
2021-07-13

Validity
2024-07-12


bsi.

Certificate of Registration

OCCUPATIONAL HEALTH & SAFETY MANAGEMENT SYSTEM - ISO 45001:2018

This is to certify that:

SAMSUNG ELECTRO-MECHANICS
VIETNAM CO., LTD
Yen Binh Industrial Park,
Dong Tien Town,
Pho Yen Town,
Thai Nguyen Province,
Vietnam

Holds Certificate Number: OHS 676617

and operates an Occupational Health and Safety Management System which complies with the requirements of ISO 45001:2018 for the following scope:

The Manufacture of Camera Module including Lens and Actuator; Flexible Printed Circuit Board (FPCB) and Substrate Printed Circuit Board (PCB).

[Previously certified by BSI OHSAS 18001:2007 since 2017-05-08].

For and on behalf of BSI:

Chris Cheung, Head of Compliance & Risk - Asia Pacific

Original Registration Date: 2020-09-07 Effective Date: 2020-09-08
Latest Revision Date: 2020-09-07 Expiry Date: 2023-09-07

Page: 1 of 1

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ISO 45001

Authority
BSI

Number
OHS_568723

Date
2019-10-14

Validity
2022-10-13

Sales Offices & Manufacturing Site

Sales Offices

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SAMSUNG
ELECTRO-MECHANICS

https://www.samsungsem.com/