

SMPL Series

Features

- Resin molded case structure utilizes multi-layer aluminum foil for anode and solid conductive polymer for cathode
- Excellent low impedance characteristics for noise suppression and decoupling
- High capacitance and Low ESR
- Stable capacitance with applied voltage/temperature/ high frequencies

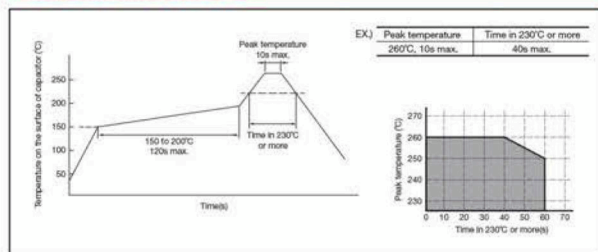
- No voltage derating required
- Polarity bar (positive) noted on product
- Surface mount construction
- Halogen free epoxy
- RoHS Compliance
- MSL3 packaging



Specifications

Item	Performance Characteristics
Category Temperature Range	-40°C ~ +105°C
Rated Voltage Range	2V.DC ~ 16V.DC
Rated Capacitance Range	6.8μF ~ 470μF
Capacitance Tolerance	±20% or +10% ~ -35% (120Hz, +20°C)
DC Leakage Current	Reflow 260°C: I ≤ 0.1CV (μA) 2 minutes
tan δ	≤0.06 (120Hz, +20°C)
Surge Voltage	Rated working voltage x 1.25 (15°C to 35°C)
Endurance (+105°C ±2°C, 1,000 hours, rated voltage applied)	Δ C/C
	tan δ
	LC
Moisture Resistance After storing for 500 hours at 60°C, 90%	Δ C/C
	tan δ
	LC

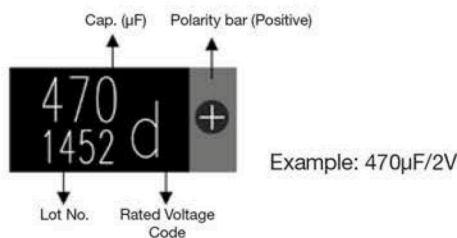
Recommendable reflow soldering temperature 260°C



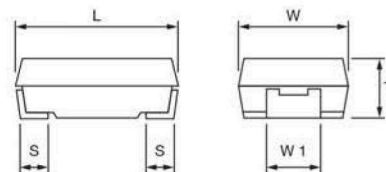
Part Number System

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
S	M	P	L	3	3	7	M	0	D	G	1	9	T	R
①	②	③	④	⑤	⑥									
① Series	SMPL			SMPL										
② Capacitance	337			330μF										
③ Capacitance Tolerance	M			±20%										
④ Rated Voltage	0D			2V										
⑤ Case Size	G19			734319										
⑥ Packing	TR			Tape & Reel										

Marking



External Dimensions



Case Size	EIA Code	L	W	T	W1	S
G19	7343	7.3±0.2	4.3±0.2	1.9±0.2	2.4±0.1	1.3±0.3
G28	7343	7.3±0.2	4.3±0.2	2.8±0.2	2.4±0.1	1.3±0.3

(Unit: mm)

Product Lineup

		Capacitance Value (μF)																		
		6.8	10	15	22	33	47	68	82	100	120	150	180	220	270	330	390	470		
Voltage (VDC)	2									G19 16		G19 9	G19 9	G19 9/15	G19 6/9/12	G19 4.5/6/9/12	G28 4.5/6/9/12	G19 4.5/6/9	G19 4.5/6/9	G28 4.5/6/9
	2.5											G19 9	G28 9	G19 9	G28 7/9/12	G19 7/9/12	G28 7/9/12	G19 4.5/6/9/12	G19 4.5/6/9/12	G28 4.5/6/9/12
	4							G19 20	G19 9	G19 9		G19 7/9/12	G19 7/9/12	G28 7/9/12	G19 7/9/12	G28 7/9/12	G19 7/9/12	G28 7/9/12	G19 7/9/12	G28 7/9/12
	6.3			G19 40		G19 35	G19 25	G19 25	G19 15		G19 12/15	G19 9/12/15	G19 9/12/15	G28 9/12/15	G19 15	G19 10	G28 10		G19 10	G28 10
	10			G19 45		G19 40	G19 40	G19 40	G19 40	G28 40										
	12.5			G19 55	G19 45	G19 30	G28 25	G28 20												
16		G19 70	G19 40	G19 40	G19 40	G28 40														

Case Size
G19
9
ESR (mΩ)