



POSCAP is a solid electrolytic Tantalum type chip capacitor.

POSCAP, A NEW, BETTER TECHNOLOGY FOR A TANTALUM CAPACITOR.

POSCAP, A BETTER SURFACE MOUNT ALTERNATIVE TO STANDARD TANTALUM TECHNOLOGY.

The Anode is sintered Tantalum and the Cathode is a highly conductive Polymerized Organic Semiconductor formed using a new technology developed by Sanyo. **POSCAP** is a solid electrolytic chip capacitor. A new generation of Tantalum technology.

A proven technology now in production. Production capacity is available.

Features:

Safer than a standard Tantalum capacitor, especially in the short circuit mode.

Low impedance and low ESR at high frequency.

Lower ESR than most Tantalums. (40 milliohm in the D4 case size)

High ripple current capacity. (up to 3000 milliamps)

Temperature rating: -55C to + 105C

Voltage rating up to 16 volts. (**OK to operate at 90% of rated voltage if rated voltage is 10 volts or less, 80% if rated voltage is above 10 volts.**)

Low profile chip capacitor. (1.9 MM in the TPC series)

Reflow soldering method available.

APA/APB series, the anode is aluminum foil

TPA series, the anode is sintered tantalum.

TPB series, the anode is sintered tantalum.

TPC series, the anode is sintered tantalum, 1.9 mm height.

The cathode in all series is a highly conductive **Polymerized Organic Semiconductor** formed using a new technology developed by Sanyo.

SOLID ELECTROLYTIC CHIP TANTALUM SMD CAPACITOR, POSCAP SERIES

		(V)	(uF)	(DF)(% max.)	*3	(mohm) (max.)	ripple current
							(mArms) *2
D3	2R5TPB330M	2.5	330	8.0	82.5	65	1500
D3L	2R5TPB330ML	2.5	330	10.0	82.5	55	1900
D3L	2R5TPB470ML	2.5	470	10.0	117.5	40	2000
D4	2R5TPB680M	2.5	680	10.0	170.0	40	3000
D4	2R5TPB1000M	2.5	1000	15.0	250.0	30	3000
D3	4TPB220M	4.0	220	8.0	88.0	65	1500
D3L	4TPB220ML	4.0	220	10.0	88.0	55	1900
D3L	4TPB330ML	4.0	330	10.0	132.0	40	2000
D4	4TPB470M	4.0	470	10.0	188.0	40	3000
D4	4TPB680M	4.0	680	15.0	272.0	35	3000
D3	6TPB150M	6.3	150	8.0	94.5	55	1900
D3L	6TPB150ML	6.3	150	10.0	94.5	55	1900
D3L	6TPB220ML	6.3	220	10.0	138.6	40	2000
D4	6TPB330M	6.3	330	10.0	207.9	40	3000
D4	6TPB470M	6.3	470	15.0	296.1	35	3000
D3	10TPB100M	10	100	8.0	100.0	55	1900
D3L	10TPB100MI	10	100	10.0	100.0	55	1900
D4	10TPB220M	10	220	10.0	220.0	40	3000
D3	16TPB47M	16	47	10.0	75.2	70	1400

The 16TPB47M is under development.

TPC Series

*1 Capacitance tolerance: M= +/-20% *2 100~500 KHZ, +45 degrees C *3 After 5 minutes

Size	Part Number	Rated	Nominal	Tangent of	Leakage	E.S.R	MAXIMUM
Code	*1	Voltage	Capacitance	loss angle	current (uA)	100 KHZ	allowable
		(V)	(uF)	(DF)(% max.)	*3	(mohm) (max.)	ripple current
							(mArms) *2
D2	2R5TPC220M	2.5	220	10.0	55.0	45	1700
D2	2R5TPC330M	2.5	330	10.0	82.5	40	1900
D2	4TPC150M	4.0	150	10.0	60.0	45	1700
D2	4TPC220M	4.0	220	10.0	88.0	40	1900
D2	6TPC100M	6.3	100	10.0	63.0	45	1700
D2	6TPC150M	6.3	150	10.0	94.5	40	1900
D2	10TPC68M	10	68	10.0	68.0	45	1700
D2	16TPC33M	16	33	10.0	52.8	70	1400

SOLID ELECTROLYTIC CHIP TANTALUM SMD CAPACITOR, POSCAP SERIES

The 16TPC33M is under development.

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