YUSHUN VT SERIES

SMD Aluminum Electrolytic Capacitors — English Product Overview

1. Product Description

The VT series is a miniature, wide-temperature-range surface-mount aluminum electrolytic capacitor series listed by Shenzhen Yushun Electronic Technology Co., Ltd. The series is intended for PCB surface-mount applications where polarized aluminum electrolytic capacitors are required.

2. Series Specifications

Parameter	VT Series Specification
Operating temperature range	-40°C to +105°C
Rated voltage range	4V DC to 100V DC
Capacitance range	0.1µF to 8,200µF
Capacitance tolerance	±20%
Leakage current	0.01 × C × V (µA) or 3µA, whichever is greater, after 2 minutes (as listed on the series overview)
Case size range (D × L)	4 × 5.4 mm to 18 × 21.5 mm
Mounting type	Surface Mount Device (SMD)
Polarity	Polarized

3. Selected VT Part Number Examples

The following examples are transcribed from product entries displayed in Yushun's online product catalogue. Ripple-current values are specified at 120 Hz and +105°C; tan δ values are specified at 120 Hz and +20°C.

Part Number	Rated Voltage	Capacitance	Case Size (D × L)	Ripple Current	tan δ	MOQ
VT0Q102MF105000LP0	4V	1,000µF	8 × 10.5 mm	350 mA	0.35	500
VT0Q471ME077000LP0	4V	470µF	6.3 × 7.7 mm	150 mA	0.35	1,000
VT0Q221ME054000LP0	4V	220µF	6.3 × 5.4 mm	100 mA	0.35	1,000
VT0Q101MC054000LP0	4V	100µF	5 × 5.4 mm	55 mA	0.35	1,000
VT1A221ME077000LP0	10V	220µF	6.3 × 7.7 mm	120 mA	0.24	1,000
VT0J221ME077000LP0	6.3V	220µF	6.3 × 7.7 mm	120 mA	0.28	1,000
VT0J472MJ165000LP0	6.3V	4,700µF	16 × 16.5 mm	1,000 mA	0.28	125

4. Important Engineering Notes

- The VT series is polarized. Observe the positive and negative terminals during PCB layout, assembly, testing, and replacement.
- Do not exceed the rated DC voltage. Consider voltage derating and ripple-current heating in the actual application.
- Ripple-current capability depends on frequency and temperature. Use the exact part-number datasheet for design qualification.
- The series-level specifications above do not replace the individual part-number datasheet. Confirm ESR/impedance, endurance, dimensions, and soldering conditions for the exact ordering code before production use.
- Catalogue screenshots in the source PDF state: “VT series, temperature: -40~+105°C, lifespan: 1000 hrs, meets environmental ROHS requirements.” One 25 V / 10 µF row in the source list carries a VH-series part number (VH1E100MB054000LP0, 2000 hrs) — kept as in the source (see note under the full table).

Surface Mount Electrolytic Capacitors **VT**

V:

All 4V 6V 10V 16V 25V 35V 50V 63V 100V 127V

uF:

All 33uF 47uF 100uF 22uF 150uF 220uF 330uF 470uF 680uF 1000uF 1500uF 2200uF 3300uF 4700uF 6800uF 10000uF 10uF 1uF 4.7uF 68uF 27uF 1200uF 15uF

mm:

All 4mm 5mm 6.3mm 8mm 10mm 12.5mm 16mm 18mm

mm:

All 5.4mm 7.7mm 10.5mm 13.5mm 16.5mm 21.5mm 6.2mm 5.8mm 12.5mm

℃:

All 85℃ 105℃ 125℃

H:

All 2000 hours 1000 hours 3000 hours 5000 hours

VT series, temperature range: -40~+105°C, lifespan: 1000 hours, compliant with RoHS environmental requirements.

4	1000	8	10.5	350	0.35	1000	VT0Q102MF105000LP0	500
4	470	6.3	7.7	150	0.35	1000	VT0Q471ME077000LP0	1000
4	220	6.3	5.4	100	0.35	1000	VT0Q221ME054000LP0	1000
4	100	5	5.4	55	0.35	1000	VT0Q101MC054000LP0	1000
4	33	4	5.4	31	0.35	1000	VT0Q330MB054000LP0	2000
6.3	4700	16	16.5	1000	0.28	1000	VT0J472MJ165000LP0	125
6.3	2200	12.5	13.5	680	0.28	1000	VT0J222MI135000LP0	200
6.3	1000	8	10.5	340	0.28	1000	VT0J102MF105000LP0	500
6.3	470	6.3	7.7	140	0.28	1000	VT0J471ME077000LP0	1000

6.3	330	8	10.5	290	0.28	1000	VT0J331MF105000LP0	500
6.3	220	6.3	7.7	120	0.28	1000	VT0J221ME077000LP0	1000
6.3	100	6.3	5.4	71	0.28	1000	VT0J101ME054000LP0	1000
6.3	47	4	5.4	32	0.28	1000	VT0J470MB054000LP0	2000
6.3	22	4	5.4	29	0.28	1000	VT0J220MB054000LP0	2000
10	4700	16	16.5	1000	0.24	1000	VT1A472MJ165000LP0	125
10	2200	12.5	13.5	680	0.24	1000	VT1A222MI135000LP0	200
10	1000	10	10.5	410	0.24	1000	VT1A102MG105000LP0	500
10	470	8	10.5	340	0.24	1000	VT1A471MF105000LP0	500
10	330	8	10.5	305	0.24	1000	VT1A331MF105000LP0	500
10	220	6.3	7.7	120	0.24	1000	VT1A221ME077000LP0	1000
10	100	6.3	5.4	69	0.24	1000	VT1A101ME054000LP0	1000
10	47	5	5.4	45	0.24	1000	VT1A470MC054000LP0	1000
10	22	4	5.4	28	0.24	1000	VT1A220MB054000LP0	2000
16	2200	16	16.5	900	0.20	1000	VT1C222MJ165000LP0	125
16	1000	10	10.5	550	0.20	1000	VT1C102MG105000LP0	500
16	470	8	10.5	340	0.20	1000	VT1C471MF105000LP0	500
16	220	6.3	7.7	150	0.20	1000	VT1C221ME077000LP0	1000
16	100	6.3	7.7	120	0.20	1000	VT1C101ME077000LP0	1000
16	47	6.3	5.4	70	0.20	1000	VT1C470ME054000LP0	1000
16	22	5	5.4	39	0.20	1000	VT1C220MC054000LP0	1000
16	10	4	5.4	28	0.20	1000	VT1C100MB054000LP0	2000
25	10	4	5.4	13	0.16	2000	VH1E100MB054000LP0 *	2000
25	2200	16	16.5	900	0.16	1000	VT1E222MJ165000LP0	125
25	1000	12.5	13.5	550	0.16	1000	VT1E102MI135000LP0	200
25	470	10	10.5	490	0.16	1000	VT1E471MG105000LP0	500
25	220	8	10.5	320	0.16	1000	VT1E221MF105000LP0	500
25	100	6.3	7.7	100	0.16	1000	VT1E101ME077000LP0	1000
25	47	6.3	5.4	70	0.16	1000	VT1E470ME054000LP0	1000
25	33	6.3	5.4	65	0.16	1000	VT1E330ME054000LP0	1000
25	22	6.3	5.4	55	0.16	1000	VT1E220ME054000LP0	1000
25	10	4	5.4	22	0.16	1000	VT1E100MC054000LP0	2000

35	1500	16	16.5	900	0.14	1000	VT1V152MJ165000LP0	125
35	470	10	10.5	480	0.14	1000	VT1V471MG105000LP0	500
35	220	10	10.5	435	0.14	1000	VT1V221MG105000LP0	500
35	100	8	10.5	296	0.14	1000	VT1V101MF105000LP0	500
35	33	6.3	5.4	60	0.14	1000	VT1V330ME054000LP0	1000
35	22	5	5.4	40	0.14	1000	VT1V220MC054000LP0	1000
35	10	4	5.4	22	0.14	1000	VT1V100MB054000LP0	2000
50	680	16	16.5	750	0.12	1000	VT1H681MJ165000LP0	125
50	470	12.5	13.5	490	0.12	1000	VT1H471MI135000LP0	200
50	220	10	10.5	375	0.12	1000	VT1H221MG105000LP0	500
50	100	8	10.5	230	0.12	1000	VT1H101MF105000LP0	500
50	47	6.3	7.7	80	0.12	1000	VT1H470ME077000LP0	1000
50	22	6.3	7.7	51	0.12	1000	VT1H220ME077000LP0	1000
50	10	6.3	5.4	32	0.12	1000	VT1H100ME054000LP0 **	1000
50	4.7	4	5.4	16	0.12	1000	VT1H4R7MB054000LP0	2000
63	470	16	16.5	450	0.12	1000	VT1J471MJ165000LP0	125
63	220	10	10.5	205	0.12	1000	VT1J221MG105000LP0	500
63	47	8	10.5	100	0.12	1000	VT1J470MF105000LP0	500
63	22	6.3	7.7	50	0.12	1000	VT1J220ME077000LP0	1000
63	10	6.3	5.4	42	0.12	1000	VT1J100ME054000LP0	1000
100	220	16	16.5	410	0.12	1000	VT2A221MJ165000LP0	125
100	100	12.5	13.5	220	0.12	1000	VT2A101MI135000LP0	125
100	47	8	10.5	100	0.12	1000	VT2A470MF105000LP0	500
100	22	8	10.5	80	0.12	1000	VT2A220MF105000LP0 ***	500
100	10	6.3	5.4	47	0.12	1000	VT2A100ME054000LP0	1000
100	4.7	5	5.4	40	0.12	1000	VT2A4R7MC054000LP0	1000

** VH1E100MB054000LP0 appears in the source PDF's VT list (25 V / 10 µF, 2000 h). It is a VH-series code, kept here exactly as in the source.*

*** Source PDF extraction shows "VT1H220ME054000LP0" for the 50 V / 10 µF row; the part-number body should read 100 (10 µF). Rendered here as VT1H100ME054000LP0 — please confirm against the Yushun catalogue before ordering.*

**** Source PDF writes the capacitance as the words "twenty two" for VT2A220MF105000LP0 (100 V / 22 µF). Normalized to "22" in the table.*

VT series, temperature range: -40~+105°C, lifespan: 1000 hours, compliant with RoHS environmental requirements (as printed at the foot of the catalogue tables).