



CAPACITORS

0402 SMD, Multilayer Ceramic Chip Capacitors

Part No.	Product No.	Manufacturer	Description	Capacitance	Voltage DCV	Dielectric	Tolerance(±)
31502	0402-0.1uF-25V	WALSIN	0402 SMD 100nF/16V Capacitor	100nF	25V	Y5V	-20%+80%
39756	0402B472K250CT	WALSIN	SMD Multilayer Ceramic Chip Capacitors	4700pF(4.7nF)	25V	X7R	±10%
39676	0402B562K250CT	WALSIN	SMD Multilayer Ceramic Chip Capacitors	5600pF(5.6nF)	25V	X7R	±10%
39677	0402B752K250CT	WALSIN	SMD Multilayer Ceramic Chip Capacitors	7500pF(7.5nF)	25V	X7R	±10%
39674	0402N0R5C500LT	WALSIN	SMD Multilayer Ceramic Chip Capacitors	0.5pF	50V	NPO	±0.25pF
39675	0402N5R6D500LT	WALSIN	SMD Multilayer Ceramic Chip Capacitors	5.6pF	50V	NPO	±0.50pF

Detailed product specifications are available on: us.100y.com.tw

YAGEO



NPO

Characteristics

Temperature characteristic/
coefficient (TC)

Capacitance tolerance

Dissipation factor (P. F.)

Insulation resistance (1R)

Test conditions

With respect to 20°C within operation
temperature range

With respect to 20°C
C≤1000pF 1Vrms/1MHz
C>1000pF 1Vrms/1KHz

With respect to 20°C
C≤1,000pF 1Vrms/1MHz
C>1,000pF 1Vrms/1KHz

At ur (rated voltage) for 1 minute
Ur>500V. at 500V (DC) for 1 minute

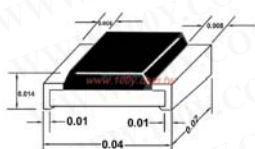
Requirement

NPO=16V, 0±60ppm/K
NPO>16V, 0±30ppm/K

C<5;±0.1pF, ±0.25pF
C≥5;±0.25pF, ±0.5pF
C≥10pF; ±2%, ±5%

C<10pF
D. F. ≤10(3/C+0.7)X10⁻⁴ or 30X10⁻⁴
Whichever is less C≥10pF, D. F. ≤10X10⁻⁴

R_{ins}>10GΩ or R_{ins}xC≥500s
which ever is less



X7R

Characteristics

Temperature characteristic/
coefficient (TC)

Capacitance tolerance

Dissipation factor (P. F.)

Insulation resistance (1R)

Test conditions

With respect to 20°C within operation
temperature range

1Vrms/1KHz at 20°C

1Vrms/1KHz at 20°C

At ur (rated voltage) for 1 minute

Requirement

±15%

±5%, ±10%

25V, 50V & 100V; ≤2.5% 16V; ≤3.5%

C≤10nF; R_{ins}≥10GΩ C>10nF; R_{ins}xC≥500s

Y5V

Characteristics

Temperature characteristic/
coefficient (TC)

Insulation resistance (1R)

Test conditions

With respect to 20°C within operation
temperature range

At ur (rated voltage) for 1 minute

Requirement

+30% TO -80%

R_{ins}>10GΩ or R_{ins} x C≥100s
whichever is less

X5R

Characteristics

Temperature characteristic

Capacitance tolerance

Dissipation factor (P. F.)

Insulation resistance (1R)

Test conditions

Between minimum and maximum temperature

Precondition: 150+0/-10°C for 1 hour then keep for
48±1hours at room temperature
f=1KHz for C≤10μF; measuring voltage 1V_{rms} at 20°C
f=120Hz for C>10μF; measuring voltage 0.5V_{rms} at 20°C

f=1KHz for C≤10μF; measuring voltage 1V_{rms} at 20°C
f=120Hz for C>10μF, measuring voltage 0.5V_{rms} at 20°C

At ur (rated voltage) for 1 minute

Requirement

In accordance with specification

Within specified tolerance

25V, 50V & 100V; ≤2.5%
16V; ≤3.5%

In accordance with specification

Part No.	Product No.	Manufacturer	Description	Capacitance	Voltage DCV	Dielectric	Tolerance(±)
18562	0402-300pF-50V	YAGEO	0402 SMD Capacitor	300pF	50V	X7R	+/-5%
18493	0402-330nF-50V	YAGEO	330nF/50V 0402 SMD Capacitor	330nF	50V	X7R	+/-5%
14747	0402KRX7R9BB152	YAGEO	0402 SMD Capacitor	0.0015uF	25V	X7R	+/-10%
17190	0402Y5V104P/16VZ	SYNTON	0402 SMD Capacitor	0.1μF	16V	Y5V	+80-20%
18495	CC0402CRNPO9BN1R0	YAGEO	1pF/50V 0402 SMD Capacitor	1pF	50V	NPO	+/-0.25pF
18498	CC0402CRNPO9BN2R0	YAGEO	2pF/50V 0402 SMD Capacitor	2pF	50V	NPO	+/-0.25pF
18500	CC0402CRNPO9BN4R0	YAGEO	0402 SMD Capacitor	4pF	50V	NPO	+/-0.25pF
18503	CC0402CRNPO9BN4R7	YAGEO	0402 SMD Capacitor	4.7pF	50V	NPO	+/-0.25pF
18505	CC0402DRNPO9BN5R0	YAGEO	0402 SMD Capacitor	5pF	50V	NPO	+/-0.5pF
18507	CC0402DRNPO9BN6R0	YAGEO	0402 SMD Capacitor	6pF	50V	NPO	+/-0.5pF
18509	CC0402DRNPO9BN7R0	YAGEO	0402 SMD Capacitor	7pF	50V	NPO	+/-0.5pF
18512	CC0402DRNPO9BN8R0	YAGEO	0402 SMD Capacitor	8pF	50V	NPO	+/-0.5pF
18515	CC0402JRNPO9BN100	YAGEO	0402 SMD Capacitor	10pF	50V	NPO	+/-5%
18552	CC0402JRNPO9BN101	YAGEO	0402 SMD Capacitor	100pF	50V	NPO	+/-5%
18518	CC0402JRNPO9BN120	YAGEO	0402 SMD Capacitor	12pF	50V	NPO	+/-5%
18520	CC0402JRNPO9BN150	YAGEO	0402 SMD Capacitor	15pF	50V	NPO	+/-5%
18522	CC0402JRNPO9BN200	YAGEO	0402 SMD 20pF/50V Capacitor	20pF	50V	NPO	+/-5%



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