

Axial Leaded Multilayer Ceramic Capacitors for General Purpose Class 1, Class 2 and Class 3, 50 V_{DC}, 100 V_{DC}, 200 V_{DC}, 500 V_{DC}


FEATURES

- High capacitance with small size
- High reliability
- Axial mounting style
- Material categorization:
For definitions of compliance please see www.vishay.com/doc?99912


RoHS
COMPLIANT

APPLICATIONS

- Temperature compensation
- Coupling and decoupling

| QUICK REFERENCE DATA | | | | | | | | | | | |
|----------------------------|--------|------|------|------|-----------|---------|--------|--------|-----------|---------|--|
| DESCRIPTION | VALUE | | | | | | | | | | |
| Ceramic Class | 1 | | | | 2 | | | | 3 | | |
| Ceramic Dielectric | C0G | | | | X7R | | | | Y5V | | |
| Voltage (V _{DC}) | 50 | 100 | 200 | 500 | 50 | 100 | 200 | 500 | 50 | 100 | |
| Min. Capacitance (pF) | 10 | 10 | 33 | 33 | 100 | 100 | 100 | 100 | 10 000 | 10 000 | |
| Max. Capacitance (pF) | 10 000 | 5600 | 2200 | 1000 | 1 000 000 | 220 000 | 47 000 | 33 000 | 1 000 000 | 220 000 | |
| Mounting | Axial | | | | | | | | | | |

MARKING

Marking indicates capacitance value and tolerance in accordance with "EIA 198" and voltage marks.

OPERATING TEMPERATURE RANGE

C0G, X7R: - 55 °C to + 125 °C

Y5V: - 30 °C to + 85 °C

TEMPERATURE CHARACTERISTICS

Class 1: C0G

Class 2: X7R

Class 3: Y5V

SECTIONAL SPECIFICATIONS

Climatic category (acc. to EN 60058-1)

Class 1 and 2: 55/125/21

Class 3: 30/85/21

APPROVALS

EIA 198

IEC 60384-9

DESIGN

The capacitors consist of a MLCC, and connection leads are made of tinned Fecuma wire, having diameters of 0.5 mm.

Coating is made of yellow colored flame retardant epoxy resin in accordance with UL 94 V-0.

CAPACITANCE RANGE

10 pF to 1000 nF

TOLERANCE ON CAPACITANCE

± 5 %, ± 10 %, ± 20 %, + 80 %/- 20 %

RATED VOLTAGE

50 V_{DC}, 100 V_{DC}, 200 V_{DC}, 500 V_{DC}

TEST VOLTAGE

- 50 V_{DC} and 100 V_{DC}: 250 % of rated voltage
- 200 V_{DC}: 150 % of rated voltage + 100 V_{DC}
- 500 V_{DC}: 130 % of rated voltage + 100 V_{DC}

INSULATION RESISTANCE AT 500 V_{DC}

- 50 V_{DC} and 100 V_{DC}: 100 GΩ or 1000 ΩF whichever is less at rated voltage within 2 min of charging
- 200 V_{DC} and 500 V_{DC}: 10 GΩ or 100 ΩF whichever is less at rated voltage within 2 min of charging

DISSIPATION FACTOR

Class 1 0.1 % max. when C ≥ 30 pF
(1 MHz 1 V where C ≤ 1000 pF, and 1 kHz 1 V where C > 1000 pF)

For C < 30 pF: DF = 100/(400 + 20 x C)

DF = Dissipation factor in %;

C = Capacitance value in pF

Class 2 2.5 % max. (1 kHz 1 V)

Class 3 5 % max. (1 kHz 1 V)

| DIMENSIONS (in millimeters) | | |
|-----------------------------|--------------------|--------------------|
| | | |
| SIZE CODE | Lb _{MAX.} | ØD _{MAX.} |
| 15 | 3.8 | 2.6 |
| 20 | 5.1 | 3.1 |

Note

- The leads are matte tinned FeCu wire.

| MARKING | | | |
|----------------------------|----------|----------|--|
| CAPACITANCE VALUE < 100 pF | Side one | Side two | |
| | | | |
| CAPACITANCE VALUE ≥ 100 pF | Side one | Side two | |
| | | | |

| MARKING CODE DESCRIPTION | | | | |
|---|---|--|---|-------------------------------------|
| DDD | xxx | t | v | T |
| Date Code | Capacitance Code | Tolerance Code | Voltage Code | T.C. Code |
| The first digit is the year, the last two digits are the week. For example: 109 = 2011, 9 th week 217 = 2012, 17 th week | Two significant digits followed by one digit for the multiplier as given below. 1 = x 10, 2 = x 100, 3 = x 1000, 4 = x 10 000, 5 = x 100 000 | J = ± 5 % K = ± 10 % M = ± 20 % Z = + 80 %/- 20 % | 1 = 100 V 2 = 200 V 4 = 500 V 5 = 50 V | A = COG (NP0) C = X7R Y = Y5V |

Note

- The capacitance code indicates actual capacitance in pF when capacitance value < 100 pF.

| ORDERING CODE INFORMATION | | | | | | | |
|---------------------------|--|--|------------------------------------|------------------------------------|---|-----------------------|--------------------------|
| Product Type | Capacitance (pF) | Capacitance Tolerance | Size Code | TC Code | Rated Voltage | Lead Diameter | Packaging |
| A = Axial leaded MLCC | The first two digits are the significant figures of capacitance and the last digit is a multiplier as follows: 1 = *10 2 = * 100 3 = * 1000 4 = * 10 000 | J = ± 5 % K = ± 10 % M = ± 20 % Z = + 80 %/- 20 % | Please refer to relevant datasheet | Please refer to relevant datasheet | E = 25 V _{DC} F = 50 V _{DC} H = 100 V _{DC} K = 200 V _{DC} L = 500 V _{DC} | 5 = 0.50 mm ± 0.05 mm | TAA = Reel UAA = Ammo |



ORDERING CODES

| DIELECTRIC COG | | | | |
|----------------|--------------------|---------------------|---------------------|---------------------|
| CAP. (pF) | 50 V _{DC} | 100 V _{DC} | 200 V _{DC} | 500 V _{DC} |
| 10 | A100#15C0GF5### | A100#15C0GH5### | - | - |
| 12 | A120#15C0GF5### | A120#15C0GH5### | - | - |
| 15 | A150#15C0GF5### | A150#15C0GH5### | - | - |
| 18 | A180#15C0GF5### | A180#15C0GH5### | - | - |
| 22 | A220#15C0GF5### | A220#15C0GH5### | - | - |
| 27 | A270#15C0GF5### | A270#15C0GH5### | - | - |
| 33 | A330#15C0GF5### | A330#15C0GH5### | A330#15C0GK5### | A330#15C0GL5### |
| 39 | A390#15C0GF5### | A390#15C0GH5### | A390#15C0GK5### | A390#15C0GL5### |
| 47 | A470#15C0GF5### | A470#15C0GH5### | A470#15C0GK5### | A470#15C0GL5### |
| 56 | A560#15C0GF5### | A560#15C0GH5### | A560#15C0GK5### | A560#15C0GL5### |
| 68 | A680#15C0GF5### | A680#15C0GH5### | A680#15C0GK5### | A680#15C0GL5### |
| 82 | A820#15C0GF5### | A820#15C0GH5### | A820#15C0GK5### | A820#15C0GL5### |
| 100 | A101#15C0GF5### | A101#15C0GH5### | A101#15C0GK5### | A101#15C0GL5### |
| 120 | A121#15C0GF5### | A121#15C0GH5### | A121#15C0GK5### | A121#15C0GL5### |
| 150 | A151#15C0GF5### | A151#15C0GH5### | A151#15C0GK5### | A151#15C0GL5### |
| 180 | A181#15C0GF5### | A181#15C0GH5### | A181#15C0GK5### | A181#15C0GL5### |
| 220 | A221#15C0GF5### | A221#15C0GH5### | A221#15C0GK5### | A221#15C0GL5### |
| 270 | A271#15C0GF5### | A271#15C0GH5### | A271#15C0GK5### | A271#15C0GL5### |
| 330 | A331#15C0GF5### | A331#15C0GH5### | A331#15C0GK5### | A331#15C0GL5### |
| 390 | A391#15C0GF5### | A391#15C0GH5### | A391#15C0GK5### | A391#15C0GL5### |
| 470 | A471#15C0GF5### | A471#15C0GH5### | A471#15C0GK5### | A471#20C0GL5### |
| 560 | A561#15C0GF5### | A561#15C0GH5### | A561#15C0GK5### | A561#20C0GL5### |
| 680 | A681#15C0GF5### | A681#15C0GH5### | A681#15C0GK5### | A681#20C0GL5### |
| 820 | A821#15C0GF5### | A821#15C0GH5### | A821#15C0GK5### | A821#20C0GL5### |
| 1000 | A102#15C0GF5### | A102#20C0GH5### | A102#20C0GK5### | A102#20C0GL5### |
| 1200 | A122#15C0GF5### | A122#20C0GH5### | A122#20C0GK5### | - |
| 1500 | A152#15C0GF5### | A152#20C0GH5### | A152#20C0GK5### | - |
| 1800 | A182#15C0GF5### | A182#20C0GH5### | A182#20C0GK5### | - |
| 2200 | A222#15C0GF5### | A222#20C0GH5### | A222#20C0GK5### | - |
| 2700 | A272#20C0GF5### | A272#20C0GH5### | - | - |
| 3300 | A332#20C0GF5### | A332#20C0GH5### | - | - |
| 3900 | A392#20C0GF5### | A392#20C0GH5### | - | - |
| 4700 | A472#20C0GF5### | A472#20C0GH5### | - | - |
| 5600 | A562#20C0GF5### | A562#20C0GH5### | - | - |
| 6800 | A682#20C0GF5### | - | - | - |
| 8200 | A822#20C0GF5### | - | - | - |
| 10 000 | A103#20C0GF5### | - | - | - |

Notes

- Lead diameter is 0.5 mm
- # 5th digit is capacitance tolerance code: ± 5 % = J; ± 10 % = K
- # 13th, 14th and 15th digits are packaging code: Reel = TAA; Ammo = UAA



| DIELECTRIC X7R | | | | |
|----------------|--------------------|---------------------|---------------------|---------------------|
| CAP. (pF) | 50 V _{DC} | 100 V _{DC} | 200 V _{DC} | 500 V _{DC} |
| 100 | A101#15X7RF5### | A101#15X7RH5### | A101#15X7RK5### | A101#15X7RL5### |
| 120 | A121#15X7RF5### | A121#15X7RH5### | A121#15X7RK5### | A121#15X7RL5### |
| 150 | A151#15X7RF5### | A151#15X7RH5### | A151#15X7RK5### | A151#15X7RL5### |
| 180 | A181#15X7RF5### | A181#15X7RH5### | A181#15X7RK5### | A181#15X7RL5### |
| 220 | A221#15X7RF5### | A221#15X7RH5### | A221#15X7RK5### | A221#15X7RL5### |
| 270 | A271#15X7RF5### | A271#15X7RH5### | A271#15X7RK5### | A271#15X7RL5### |
| 330 | A331#15X7RF5### | A331#15X7RH5### | A331#15X7RK5### | A331#15X7RL5### |
| 390 | A391#15X7RF5### | A391#15X7RH5### | A391#15X7RK5### | A391#15X7RL5### |
| 470 | A471#15X7RF5### | A471#15X7RH5### | A471#15X7RK5### | A471#15X7RL5### |
| 560 | A561#15X7RF5### | A561#15X7RH5### | A561#15X7RK5### | A561#15X7RL5### |
| 680 | A681#15X7RF5### | A681#15X7RH5### | A681#15X7RK5### | A681#15X7RL5### |
| 820 | A821#15X7RF5### | A821#15X7RH5### | A821#15X7RK5### | A821#15X7RL5### |
| 1000 | A102#15X7RF5### | A102#15X7RH5### | A102#15X7RK5### | A102#15X7RL5### |
| 1200 | A122#15X7RF5### | A122#15X7RH5### | A122#15X7RK5### | A122#15X7RL5### |
| 1500 | A152#15X7RF5### | A152#15X7RH5### | A152#15X7RK5### | A152#15X7RL5### |
| 1800 | A182#15X7RF5### | A182#15X7RH5### | A182#15X7RK5### | A182#15X7RL5### |
| 2200 | A222#15X7RF5### | A222#15X7RH5### | A222#15X7RK5### | A222#15X7RL5### |
| 2700 | A272#15X7RF5### | A272#15X7RH5### | A272#15X7RK5### | A272#15X7RL5### |
| 3300 | A332#15X7RF5### | A332#15X7RH5### | A332#15X7RK5### | A332#20X7RL5### |
| 3900 | A392#15X7RF5### | A392#15X7RH5### | A392#15X7RK5### | A392#20X7RL5### |
| 4700 | A472#15X7RF5### | A472#15X7RH5### | A472#15X7RK5### | A472#20X7RL5### |
| 5600 | A562#15X7RF5### | A562#15X7RH5### | A562#15X7RK5### | A562#20X7RL5### |
| 6800 | A682#15X7RF5### | A682#15X7RH5### | A682#15X7RK5### | A682#20X7RL5### |
| 8200 | A822#15X7RF5### | A822#15X7RH5### | A822#15X7RK5### | A822#20X7RL5### |
| 10 000 | A103#15X7RF5### | A103#15X7RH5### | A103#15X7RK5### | A103#20X7RL5### |
| 12 000 | A123#15X7RF5### | A123#15X7RH5### | A123#15X7RK5### | A123#20X7RL5### |
| 15 000 | A153#15X7RF5### | A153#15X7RH5### | A153#15X7RK5### | A153#20X7RL5### |
| 18 000 | A183#15X7RF5### | A183#15X7RH5### | A183#15X7RK5### | A183#20X7RL5### |
| 22 000 | A223#15X7RF5### | A223#15X7RH5### | A223#15X7RK5### | A223#20X7RL5### |
| 27 000 | A273#15X7RF5### | A273#20X7RH5### | A273#20X7RK5### | A273#20X7RL5### |
| 33 000 | A333#15X7RF5### | A333#20X7RH5### | A333#20X7RK5### | A333#20X7RL5### |
| 39 000 | A393#15X7RF5### | A393#20X7RH5### | A393#20X7RK5### | - |
| 47 000 | A473#15X7RF5### | A473#20X7RH5### | A473#20X7RK5### | - |
| 56 000 | A563#15X7RF5### | A563#20X7RH5### | - | - |
| 68 000 | A683#15X7RF5### | A683#20X7RH5### | - | - |
| 82 000 | A823#15X7RF5### | A823#20X7RH5### | - | - |
| 100 000 | A104#15X7RF5### | A104#20X7RH5### | - | - |
| 150 000 | A154#20X7RF5### | A154#20X7RH5### | - | - |
| 220 000 | A224#20X7RF5### | A224#20X7RH5### | - | - |
| 330 000 | A334#20X7RF5### | - | - | - |
| 470 000 | A474#20X7RF5### | - | - | - |
| 560 000 | A564#20X7RF5### | - | - | - |
| 680 000 | A684#20X7RF5### | - | - | - |
| 1 000 000 | A105#20X7RF5### | - | - | - |

Notes

- Lead diameter is 0.5 mm
- # 5th digit is capacitance tolerance code: ± 10 % = K; ± 20 % = M
- # 13th, 14th and 15th digits are packaging code: Reel = TAA; Ammo = UAA



| DIELECTRIC Y5V | | |
|----------------|--------------------|---------------------|
| CAP. (pF) | 50 V _{DC} | 100 V _{DC} |
| 10 000 | A103Z15Y5VF5### | A103Z15Y5VH5### |
| 15 000 | A153Z15Y5VF5### | A153Z15Y5VH5### |
| 22 000 | A223Z15Y5VF5### | A223Z15Y5VH5### |
| 33 000 | A333Z15Y5VF5### | A333Z15Y5VH5### |
| 47 000 | A473Z15Y5VF5### | A473Z15Y5VH5### |
| 68 000 | A683Z15Y5VF5### | A683Z15Y5VH5### |
| 100 000 | A104Z15Y5VF5### | A104Z15Y5VH5### |
| 150 000 | A154Z15Y5VF5### | A154Z20Y5VH5### |
| 220 000 | A224Z15Y5VF5### | A224Z20Y5VH5### |
| 330 000 | A334Z20Y5VF5### | - |
| 470 000 | A474Z20Y5VF5### | - |
| 680 000 | A684Z20Y5VF5### | - |
| 1 000 000 | A105Z20Y5VF5### | - |

Notes

- Lead diameter is 0.5 mm
- Tolerance is + 80 %/- 20 %
- # 13th, 14th and 15th digits are packaging code: Reel = TAA; Ammo = UAA

TAPING AND PACKAGING

LABELLING

Each reel is provided with a label showing the following details:

Manufacturer, A style, capacitance, tolerance, batch number, quantity of components, rated voltage, dielectric.

On special request other designations can be shown.

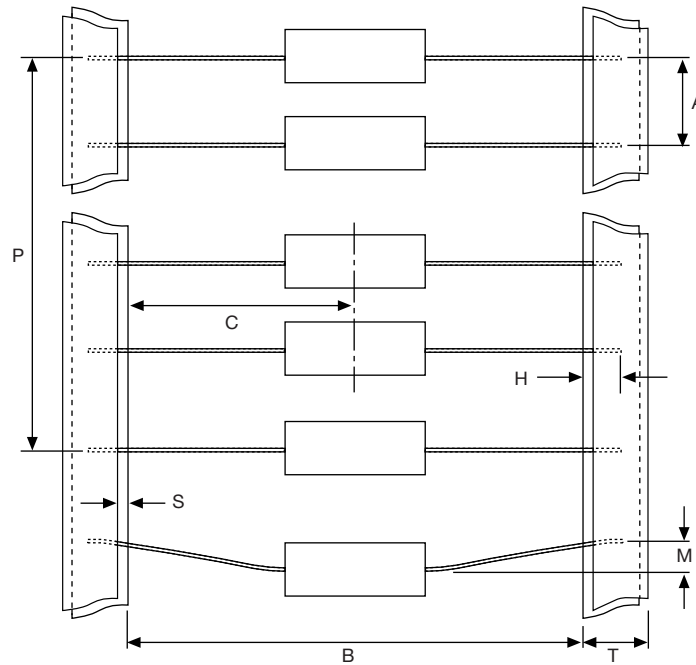
For example:



PN: A332K15X7RF5UAA Lot1: 11W601503 DC1: 0602
 QTY: 4000 Lot2: DC2:
 PO: Batch: 200602CN
 SO: Region: 9520 SL: 0010
 Ser.No: 0602A03681



| PACKAGING QUANTITIES AND BOX DIMENSIONS | | | |
|---|-----------|-----------------------------------|-------------------------------|
| PACKAGING | SIZE CODE | SMALLEST PACKAGING QUANTITY (SPQ) | BOX DIMENSIONS L x W x H (mm) |
| Tape on reel | 15, 20 | 7000 | 370 x 370 x 90 |
| Ammopack | 15, 20 | 4000 | 265 x 85 x 95 |

CAPACITORS ON BANDOLIERS FOR DIPPED AXIAL


| PARAMETER | SYMBOL | DIMENSIONS | |
|--|------------------|------------|---------------|
| | | mm | INCH |
| Inside tape spacing | B ⁽¹⁾ | 52.4 ± 1.5 | 2.062 ± 0.059 |
| Center to tape spacing | C | ± 0.8 | ± 0.031 |
| Cumulative pitch, 6 consecutive components | P | ± 1.5 | ± 0.059 |
| Components pitch | A | 5 ± 0.5 | 0.197 ± 0.015 |
| Lead bend | M | < 1.2 | < 0.047 |
| Exposed adhesive | S | < 0.51 | > 0.020 |
| Tape width | T | 6.35 | 0.250 |
| Lead sandwich | H | > 3.96 | > 0.156 |

Note

⁽¹⁾ Inside tape spacing 26.0 mm + 1.51 mm/- 0.0 mm is available on request

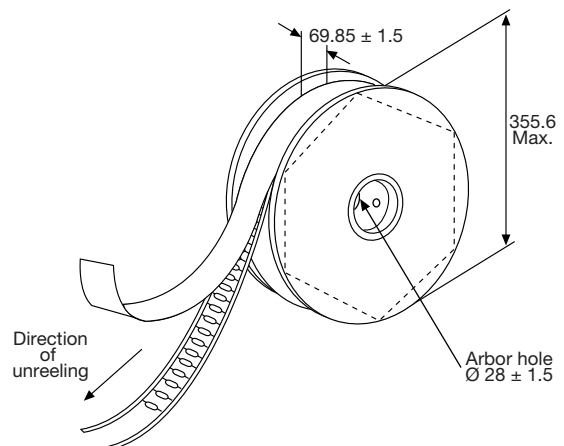
REEL DATA

A maximum of 0.5 % of the total number of capacitors per reel may be missing.

A maximum of 1 consecutive vacant positions is followed by 6 consecutive components.

Tape begins and ends with a minimum of 4 empty positions (180 mm tape).

Maximum of 5 splicers per reel.

REEL




AMMOPACK DATA

A maximum of 0.5 % of the total number of capacitors per reel may be missing.

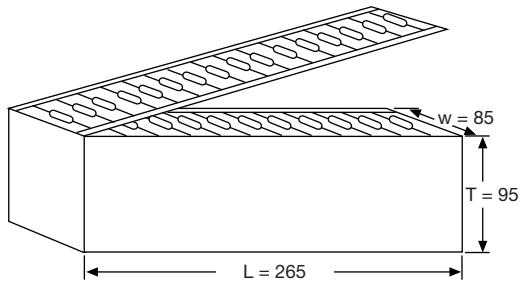
A maximum of 1 consecutive vacant positions is followed by 6 consecutive components.

Tape begins and ends with a minimum of 4 empty positions (180 mm tape).

Maximum of 5 splicers per reel.

The cumulative pitch tolerance over 20 consecutive units is not to exceed ± 1.0 mm.

AMMOPACK



REEL DIMENSIONS



| REEL SIZE | | (mm) |
|----------------|----------------|----------------|
| A | Outer diameter | 355.6 max. |
| L | Hole diameter | 28 ± 1.5 |
| K | Core diameter | 90 |
| H ₁ | Internal width | 69.9 ± 1.5 |



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Please note that some Vishay documentation may still make reference to RoHS Directive 2002/95/EC. We confirm that all the products identified as being compliant to Directive 2002/95/EC conform to Directive 2011/65/EU.

Vishay Intertechnology, Inc. hereby certifies that all its products that are identified as Halogen-Free follow Halogen-Free requirements as per JEDEC JS709A standards. Please note that some Vishay documentation may still make reference to the IEC 61249-2-21 definition. We confirm that all the products identified as being compliant to IEC 61249-2-21 conform to JEDEC JS709A standards.

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Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели,
кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



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