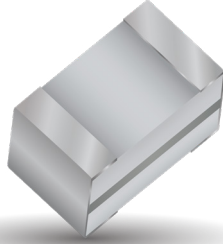


Thin-Film RF/Microwave Capacitor Technology

Accu-P® Series

Ultra-Miniature 01005 Size



ACCU-P® TECHNOLOGY

The use of silicon oxide, a very low - loss dielectric material, in conjunction with highly conductive electrode metals, results in low ESR and high Q. These high - frequency characteristics change at a slower rate with increasing frequency than for ceramic microwave capacitors.

ACCU-P® meets the fast - growing demand for low - loss (high - Q) capacitors for use in surface mount technology, especially for the wireless communications market at frequencies up to and above 5.8GHz.

ACCU-P® is currently unique in its ability to offer very low capacitance values (0.05 pF) and ultra tight capacitance tolerances (± 0.01 pF).

ACCU-P® TECHNOLOGY

- RF Modules
- Mobile communications
- Statelike TV
- Global positioning systems
- Filters
- VCO's
- Matching Networks

FEATURES

- Ultra Miniature standard 01005 chip size.
- Ultra tight capacitance tolerances (± 0.01 pF).
- Low ESR and high Q at VHF, UHF and microwave frequencies.
- TC ± 30 , ± 60 ppm/ $^{\circ}$ C.
- Nickel/Solder - coated terminations provide excellent solderability and leach resistance.
- High insulation resistance: IR ≥ 1010 Ohm.
- Orientation provides high SRF uniformity.
- Repeatable CEFF, ESR and Q vs. Frequency parameters, both lot to lot and within lots, for increased production yields.

HOW TO ORDER

C005	Y	X	XXX	X	B	S	TR
Series	Voltage Y = 16V	Temperature Coefficient	Capacitance (pF)	Tolerance	Accu-P	Lead Free Termination	Packaging Code 500 pc Reel TR/10K = 10,000 pc reel TR/20K = 20,000 pc reel

P/N EXAMPLE: C 0 0 5 Y K 1 R 0 A B S T R

ACCU-P® TECHNOLOGY

Finished parts are tested for standard electrical parameters and visual / mechanical characteristics.

Each production lot is 100% evaluated for:

- Capacitance
- Q Factor
- DWV at $12.5 \times V_{\text{RATED}}$

Each production lot is evaluated on a sample basis for:

- Dimensions
- Insulation Resistance
- Breakdown Voltage
- ESR
- Solderability

In addition, production is periodically evaluated for:

- Dimensions
- Insulation Resistance
- Breakdown Voltage
- ESR
- Solderability

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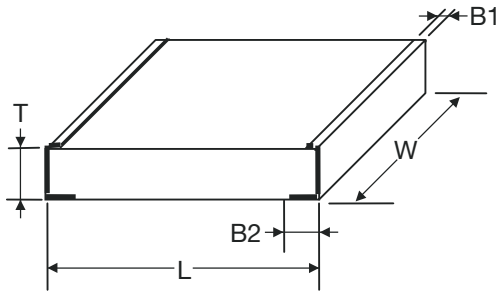
ACCU-P® 01005 CAPACITANCE RANGE

Capacitance [pF]	Part Number	Tolerances Z = ±0.01pF P = ±0.02pF Q = ±0.03pF A = ±0.05pF	TC J = ±30ppm/°C K = ±60pFppm/°C	Voltage (V)
0.05	C005YJR05_BSTR	Z, P, Q, A	J	16
0.10	C005YJR15_BSTR	Z, P, Q, A	J	16
0.15	C005YJR15_BSTR	Z, P, Q, A	J	16
0.20	C005YJR25_BSTR	Z, P, Q, A	J	16
0.25	C005YJR25_BSTR	Z, P, Q, A	J	16
0.30	C005YJR35_BSTR	Z, P, Q, A	J	16
0.35	C005YJR35_BSTR	Z, P, Q, A	J	16
0.40	C005YJR45_BSTR	Z, P, Q, A	J	16
0.45	C005YJR45_BSTR	Z, P, Q, A	J	16
0.50	C005YJR55_BSTR	Z, P, Q, A	J	16
0.55	C005YJR55_BSTR	P, Q, A	J	16
0.60	C005YJR65_BSTR	P, Q, A	J	16
0.65	C005YJR65_BSTR	P, Q, A	J	16
0.70	C005YJR75_BSTR	P, Q, A	J	16
0.75	C005YJR75_BSTR	P, Q, A	K	16
0.80	C005YKR85_BSTR	P, Q, A	K	16
0.85	C005YKR85_BSTR	P, Q, A	K	16

Intermediate capacitance values are available

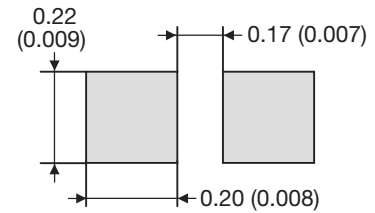
Capacitance [pF]	Part Number	Tolerances Z = ±0.01pF P = ±0.02pF Q = ±0.03pF A = ±0.05pF	TC J = ±30ppm/°C K = ±60pFppm/°C	Voltage (V)
0.90	C005YKR95_BSTR	P, Q, A	K	16
0.95	C005YKR95_BSTR	P, Q, A	K	16
1.00	C005YK1R0_BSTR	P, Q, A	K	16
1.10	C005YK1R1_BSTR	P, Q, A	K	16
1.20	C005YK1R2_BSTR	P, Q, A	K	16
1.30	C005YK1R3_BSTR	P, Q, A	K	16
1.40	C005YK1R4_BSTR	P, Q, A	K	16
1.50	C005YK1R5_BSTR	P, Q, A	K	16
1.60	C005YK1R6_BSTR	P, Q, A	K	16
1.70	C005YK1R7_BSTR	P, Q, A	K	16
1.80	C005YK1R8_BSTR	P, Q, A	K	16
1.90	C005YK1R9_BSTR	P, Q, A	K	16
2.00	C005YK2R0_BSTR	P, Q, A	K	16
2.10	C005YK2R1_BSTR	P, Q, A	K	16
2.20	C005YK2R2_BSTR	P, Q, A	K	16
2.30	C005YK2R3_BSTR	P, Q, A	K	16
2.40	C005YK2R4_BSTR	P, Q, A	K	16

DIMENSIONS: mm (inches)



L	0.405 ± 0.020 (0.016 ± 0.001)
W	0.215 ± 0.020 (0.0085 ± 0.001)
T	0.145 ± 0.020 (0.006 ± 0.001)
B	Top (B1): 0.0 +0.10/-0.0 (0.0 +0.004/-0.0) Bottom (B2): 0.10 ± 0.03 (0.004 ± 0.001)

RECOMMENDED PAD LAYOUT: mm (inches)



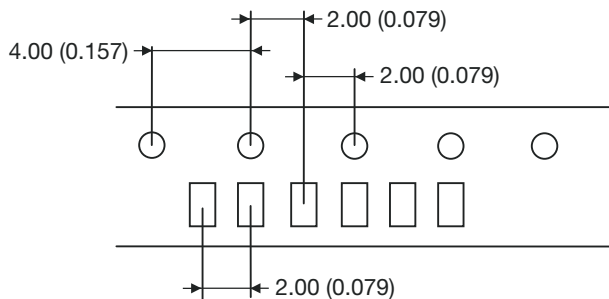
PACKAGING SPECIFICATION: mm (inches)

Standard Packaging: 5,000 / 10,000 / 20,000pcs in 4" / 7" reels

Materials: Reel – Polystyrene

Tape – Paper: 8.00 (0.315)

Component pitch: 2.00 (0.079)



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Kyocera AVX:

[C005YJ0R1PBSTR](#) [C005YJ0R2PBSTR](#) [C005YJ0R3PBSTR](#) [C005YJ0R4PBSTR](#) [C005YJ0R5PBSTR](#)
[C005YJ0R6PBSTR](#) [C005YJ0R7PBSTR](#) [C005YJR05PBSTR](#) [C005YK0R8PBSTR](#) [C005YK0R9PBSTR](#)
[C005YK1R0PBSTR](#) [C005YK1R2QBSTR](#) [C005YK1R5QBSTR](#) [C005YK1R8QBSTR](#) [C005YK2R2QBSTR](#)
[C005YK1R0ABSTR](#) [C005YJ0R5BBSTR](#) [C005YK1R8ABSTR](#) [C005YK2R0ABSTR](#) [C005YK2R1ABSTR](#)
[C005YJ0R6ABSTR](#) [C005YJR75PBSTR](#) [C005YK1R2ABSTR](#) [C005YJ0R1QBSTR](#) [C005YJ0R2ZBSTR](#)
[C005YJ0R1ZBSTR](#) [C005YJR25PBSTR](#) [C005YJR55PBSTR](#) [C005YJ0R5ABSTR](#) [C005YJ0R8ABSTR](#)
[C005YK1R5ABSTR](#) [C005YJ0R7ABSTR](#) [C005YK1R6ABSTR](#) [C005YK2R4ABSTR](#)