

Leaded Capacitors, EIA Standard Z5U (Y5U)

Features

- Extremely high volumetric efficiency
- Non-linear capacitance change

Applications

- Blocking
- Coupling
- Decoupling
- Interference suppression

Terminals

- Parallel wire leads
iron-nickel, tinned
- Crimped leads
- Non-standard lead lengths on request

Marking

- Rated capacitance, tolerance, manufacturer's logo, ceramic material, voltage

Packing

Optionally

- Taped (reel or Ammo pack)
- Bulk

Maximum ratings

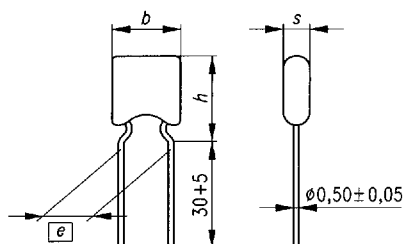
- Climatic category
in accordance with IEC 68-1: 25/085/56

Available capacitance tolerances

$\Delta C_R/C_R = \pm 20\%$, symbol: M

Rated voltage values

$V_R = 50\text{ V}^{1)}$



KKE0203-N

Dimensions (mm)

Lead spacing $[e] = 2,5^{+0,6}_{-0,1}$ mm

$h_{\max}$	5,5	6,5
$b_{\max}$	5,0	5,0
$s_{\max}$	2,5	2,5
Type	B37982-M	B37988-M

Lead spacing $[e] = 5,0^{+0,6}_{-0,1}$ mm

$h_{\max}$	5,5	6,5	9,0
$b_{\max}$	5,0	5,0	7,5
$s_{\max}$	2,5	2,5	2,5
Type	B37982-G	B37988-G	B37985-N

1) Also suitable for 63 V applications.



Ordering codes for capacitors with radial crimped leads, 50 Vdc

Lead spacing	2,5 mm		5,0 mm		
$h \times b \times s$ (mm)	5,5 × 5,0 × 2,5	6,5 × 5,0 × 2,5	5,5 × 5,0 × 2,5	6,5 × 5,0 × 2,5	9,0 × 7,5 × 2,5
C_R	Ordering code ¹⁾				
	B37982-	B37988-	B37982-	B37988-	B37985-
10 nF	-N5103-M51		-G5103-M51		
15 nF	-N5153-M51		-G5153-M51		
22 nF	-N5223-M51		-G5223-M51		
33 nF	-N5333-M51		-G5333-M51		
47 nF	-N5473-M51		-G5473-M51		
68 nF	-N5683-M51		-G5683-M51		
100 nF	-N5104-M51		-G5104-M51		
150 nF	-N5154-M51		-G5154-M51		
220 nF		-N5224-M51		-G5224-M51	
330 nF		-N5334-M51		-G5334-M51	
470 nF		-N5474-M51		-G5474-M51	
680 nF		-N5684-M51		-G5684-M51	
1,0 µF		-N5105-M51		-G5105-M51	
1,5 µF					-N5155-M51
2,2 µF					-N5225-M51
3,3 µF					-N5335-M51
4,7 µF					-N5475-M51

Characteristics:

Compare with standard chip capacitors.

¹⁾ The tables contain the ordering code for capacitors with radial crimped leads (EIA standard),
 – taped, reel packing
 – with a capacitance tolerance of $\pm 20\%$
 For other versions refer to "Delivery Modes and Ordering Code", page 114.



Features

- Extremely high volumetric efficiency
- Non-linear capacitance change

Applications

- Blocking
- Coupling
- Decoupling
- Interference suppression

Terminals

- Parallel wire leads
iron-nickel, tinned
- Straight leads
- Non-standard lead lengths on request

Marking

- Rated capacitance, tolerance, manufacturer's logo, ceramic material, voltage

Packing

Optionally

- Taped (reel or Ammo pack)
- Bulk

Maximum ratings

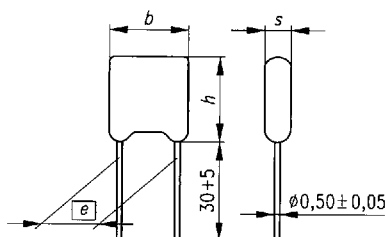
- Climatic category
in accordance with IEC 68-1: 25/085/56

Available capacitance tolerances

$\Delta C_R / C_R = \pm 20 \%$, Symbol: M

Rated voltage values

$V_R = 50 \text{ V}^{1)}$



KKE0204-W

Dimensions (mm)

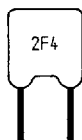
Lead spacing $\square e = 2,5 \pm 0,1 \text{ mm}$

$h_{\max}$	5,5	6,5
$b_{\max}$	3,8	5,0
$s_{\max}$	2,5	2,5
Type	B37982-K	B37988-K

Lead spacing $\square e = 5,0 \pm 0,1 \text{ mm}$

$h_{\max}$	5,5	6,5	9,0
$b_{\max}$	3,8	5,0	7,5
$s_{\max}$	2,5	2,5	2,5
Type	B37982-D	B37988-D	B37985-K

1) Also suitable for 63 V applications



Ordering codes for capacitors with radial straight leads, 50 Vdc

Lead spacing		2,5 mm		5,0 mm	
$h \times b \times s$ (mm)		$5,5 \times 3,8 \times 2,5$	$6,5 \times 5,0 \times 2,5$	$5,5 \times 3,8 \times 2,5$	$6,5 \times 5,0 \times 2,5$
C_R		Ordering code ¹⁾			
		B37982-	B37988-	B37982-	B37988-
					B37985-
10	nF	-K5103-M51		-D5103-M51	
15	nF	-K5153-M51		-D5153-M51	
22	nF	-K5223-M51		-D5223-M51	
33	nF	-K5333-M51		-D5333-M51	
47	nF	-K5473-M51		-D5473-M51	
68	nF	-K5683-M51		-D5683-M51	
100	nF	-K5104-M51		-D5104-M51	
150	nF	-K5154-M51		-D5154-M51	
220	nF		-K5224-M51		-D5224-M51
330	nF		-K5334-M51		-D5334-M51
470	nF		-K5474-M51		-D5474-M51
680	nF		-K5684-M51		-D5684-M51
1,0	μ F		-K5105-M51		-D5105-M51
1,5	μ F				-K5155-M51
2,2	μ F				-K5225-M51
3,3	μ F				-K5335-M51
4,7	μ F				-K5475-M51

Characteristics:

Compare with standard chip capacitors (Z5U).

¹⁾ The tables contain the ordering code for capacitors with radial straight leads (CECC standard)

– taped, reel packing

– with a capacitance tolerance of $\pm 20\%$

For other versions refer to "Delivery Modes and Ordering Code", page 115