

Leaded Capacitors, EIA Standard
C0G

Features

- Good thermal stability
- High insulation resistance
- Low dissipation factor
- Low inductance

Applications

- Resonant circuits
- Filter circuits
- Timing elements
- Coupling and filtering, particularly in RF circuits

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

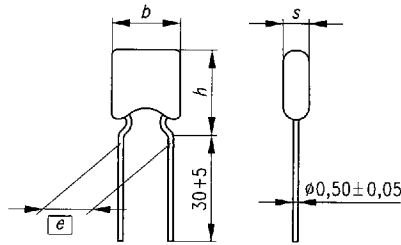
- Climatic category in accordance with IEC 68-1: 55/125/56

Available capacitance tolerances

Rated capacitance C_R	Tolerance	Symbol
$C_R < 10 \text{ pF}$:	$\Delta C_R = \pm 0,5 \text{ pF}$ $\Delta C_R = \pm 1,0 \text{ pF}$	D ¹⁾ F
$C_R \geq 10 \text{ pF}$:	$\Delta C_R/C_R = \pm 5 \%$ $\Delta C_R/C_R = \pm 10 \%$	J ¹⁾ K

Rated voltage values

$V_R = 50 \text{ V}$ ²⁾, 100 V

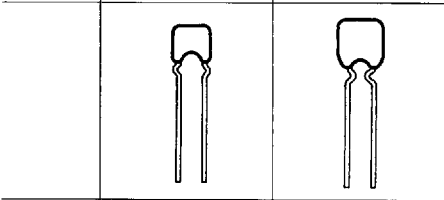


KKE0203-N

Dimensions (mm)

Lead spacing $e = 2,5 \pm 0,6$ mm

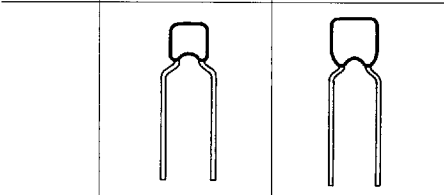
$h_{\max}$	5,5	6,5
$b_{\max}$	5,0	5,0
$s_{\max}$	2,5	2,5



Type	B37979-N	B37986-N
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Lead spacing $e = 5,0 \pm 0,6$ mm

$h_{\max}$	5,5	6,5
$b_{\max}$	5,0	5,0
$s_{\max}$	2,5	2,5

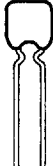
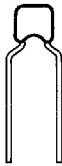
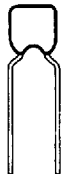


Type	B37979-G	B37986-G
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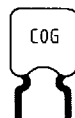
1) Standard tolerance
2) Also suitable for 63 V applications



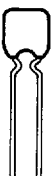
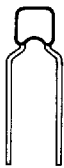
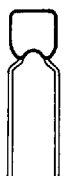
Ordering codes for capacitors with radial crimped leads, 50 Vdc

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
C_R	Ordering code ¹⁾			
	B37979-	B37986-	B37979-	B37986-
100 pF	-N5101-J51		-G5101-J51	
120 pF	-N5121-J51		-G5121-J51	
150 pF	-N5151-J51		-G5151-J51	
180 pF	-N5181-J51		-G5181-J51	
220 pF	-N5221-J51		-G5221-J51	
270 pF	-N5271-J51		-G5271-J51	
330 pF	-N5331-J51		-G5331-J51	
390 pF	-N5391-J51		-G5391-J51	
470 pF	-N5471-J51		-G5471-J51	
560 pF	-N5561-J51		-G5561-J51	
680 pF	-N5681-J51		-G5681-J51	
820 pF	-N5821-J51		-G5821-J51	
1,0 nF	-N5102-J51		-G5102-J51	
1,2 nF	-N5122-J51		-G5122-J51	
1,5 nF	-N5152-J51		-G5152-J51	
1,8 nF	-N5182-J51		-G5182-J51	
2,2 nF	-N5222-J51		-G5222-J51	
2,7 nF		-N5272-J51		-G5272-J51
3,3 nF		-N5332-J51		-G5332-J51
3,9 nF		-N5392-J51		-G5392-J51
4,7 nF		-N5472-J51		-G5472-J51
5,6 nF		-N5562-J51		-G5562-J51
6,8 nF		-N5682-J51		-G5682-J51
8,2 nF		-N5822-J51		-G5822-J51
10 nF		-N5103-J51		-G5103-J51

- 1) The tables contain the ordering code for capacitors with radial crimped leads (EIA standard), $V_R = 50$ Vdc
 – taped, reel packing
 – with a capacitance tolerance of $\pm 5\%$
 For other versions refer to "Delivery Modes and Ordering Code", page 114



Ordering codes for capacitors with radial crimped leads, 100 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
C_R	Ordering code ¹⁾			
	B37979-	B37986-	B37979-	B37986-
10 pF	-N1100-J51		-G1100-J51	
12 pF	-N1120-J51		-G1120-J51	
15 pF	-N1150-J51		-G1150-J51	
18 pF	-N1180-J51		-G1180-J51	
22 pF	-N1220-J51		-G1220-J51	
27 pF	-N1270-J51		-G1270-J51	
33 pF	-N1330-J51		-G1330-J51	
39 pF	-N1390-J51		-G1390-J51	
47 pF	-N1470-J51		-G1470-J51	
56 pF	-N1560-J51		-G1560-J51	
68 pF	-N1680-J51		-G1680-J51	
82 pF	-N1820-J51		-G1820-J51	
100 pF	-N1101-J51		-G1101-J51	
120 pF	-N1121-J51		-G1121-J51	
150 pF	-N1151-J51		-G1151-J51	
180 pF	-N1181-J51		-G1181-J51	
220 pF	-N1221-J51		-G1221-J51	
270 pF	-N1271-J51		-G1271-J51	
330 pF	-N1331-J51		-G1331-J51	
390 pF	-N1391-J51		-G1391-J51	
470 pF	-N1471-J51		-G1471-J51	
560 pF	-N1561-J51		-G1561-J51	
680 pF	-N1681-J51		-G1681-J51	
820 pF	-N1821-J51		-G1821-J51	
1,0 nF	-N1102-J51		-G1102-J51	
1,2 nF		-N1122-J51		-G1122-J51
1,5 nF		-N1152-J51		-G1152-J51
1,8 nF		-N1182-J51		-G1182-J51
2,2 nF		-N1222-J51		-G1222-J51

Characteristics: compare with standard chip capacitors.

1) The tables contain the ordering code for capacitors with radial crimped leads (EIA standard), $V_R = 100$ Vdc

– taped, reel packing

– with a capacitance tolerance of $\pm 5\%$ (for $C_R < 10$ pF $\Delta C_R = \pm 0,5$ pF)

For other versions refer to "Delivery Modes and Ordering Code", page 114

Features

- Good thermal stability
- High insulation resistance
- Low dissipation factor
- Low inductance

Applications

- Resonant circuits
- Filter circuits
- Timing elements
- Coupling and filtering, particularly in RF circuits

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

Packaging

Optionally

- Taped (reel or Ammo pack)
- Bulk

Maximum ratings

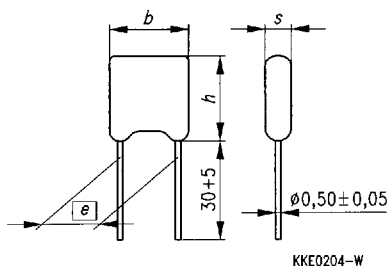
- Climatic category in accordance with IEC 68-1: 55/125/56

Available capacitance tolerances

Rated capacitance C_R	Tolerance	Symbol
$C_R < 10 \text{ pF}$:	$\Delta C_R = \pm 0,5 \text{ pF}$ $\Delta C_R = \pm 1,0 \text{ pF}$	D ¹⁾ F
$C_R \geq 10 \text{ pF}$:	$\Delta C_R/C_R = \pm 5 \%$ $\Delta C_R/C_R = \pm 10 \%$	J ¹⁾ K

Rated voltage values

$V_R = 50 \text{ V}$ ²⁾, 100 V



Dimensions (mm)

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

$h_{\max}$	5,5	6,5
$b_{\max}$	3,8	5,0
$s_{\max}$	2,5	2,5

Type	B37979-K	B37986-K

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

$h_{\max}$	5,5	6,5
$b_{\max}$	3,8	5,0
$s_{\max}$	2,5	2,5

Type	B37979-D	B37986-D

1) Standard tolerance

2) Also suitable for 63 V applications



Ordering codes for capacitors with radial straight leads, 50 Vdc

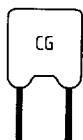
Lead spacing	2,5 mm		5,0 mm	
$h \times b \times s$ (mm)	5,5 × 3,8 × 2,5	6,5 × 5,0 × 2,5	5,5 × 3,8 × 2,5	6,5 × 5,0 × 2,5
C_R	Ordering code ¹⁾			
	B37979-	B37986-	B37979-	B37986-
100 pF	-K5101-J51		-D5101-J51	
120 pF	-K5121-J51		-D5121-J51	
150 pF	-K5151-J51		-D5151-J51	
180 pF	-K5181-J51		-D5181-J51	
220 pF	-K5221-J51		-D5221-J51	
270 pF	-K5271-J51		-D5271-J51	
330 pF	-K5331-J51		-D5331-J51	
390 pF	-K5391-J51		-D5391-J51	
470 pF	-K5471-J51		-D5471-J51	
560 pF	-K5561-J51		-D5561-J51	
680 pF	-K5681-J51		-D5681-J51	
820 pF	-K5821-J51		-D5821-J51	
1,0 nF	-K5102-J51		-D5102-J51	
1,2 nF	-K5122-J51		-D5122-J51	
1,5 nF	-K5152-J51		-D5152-J51	
1,8 nF	-K5182-J51		-D5182-J51	
2,2 nF	-K5222-J51		-D5222-J51	
2,7 nF		-K5272-J51		-D5272-J51
3,3 nF		-K5332-J51		-D5332-J51
3,9 nF		-K5392-J51		-D5392-J51
4,7 nF		-K5472-J51		-D5472-J51
5,6 nF		-K5562-J51		-D5562-J51
6,8 nF		-K5682-J51		-D5682-J51
8,2 nF		-K5822-J51		-D5822-J51
10 nF		-K5103-J51		-D5103-J51

1) The tables contain the ordering code for capacitors with radial straight leads (CECC standard), $V_R = 50$ Vdc

– taped, reel packing

– with a capacitance tolerance of $\pm 5\%$

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



Ordering codes for capacitors with radial straight leads, 100 Vdc

Lead spacing		2,5 mm		5,0 mm	
$h \times b \times s$ (mm)		5,5 × 3,8 × 2,5		6,5 × 5,0 × 2,5	
C_R		Ordering code ¹⁾			
		B37979-		B37986-	
10 pF		-K1100-J51		-D1100-J51	
12 pF		-K1120-J51		-D1120-J51	
15 pF		-K1150-J51		-D1150-J51	
18 pF		-K1180-J51		-D1180-J51	
22 pF		-K1220-J51		-D1220-J51	
27 pF		-K1270-J51		-D1270-J51	
33 pF		-K1330-J51		-D1330-J51	
39 pF		-K1390-J51		-D1390-J51	
47 pF		-K1470-J51		-D1470-J51	
56 pF		-K1560-J51		-D1560-J51	
68 pF		-K1680-J51		-D1680-J51	
82 pF		-K1820-J51		-D1820-J51	
100 pF		-K1101-J51		-D1101-J51	
120 pF		-K1121-J51		-D1121-J51	
150 pF		-K1151-J51		-D1151-J51	
180 pF		-K1181-J51		-D1181-J51	
220 pF		-K1221-J51		-D1221-J51	
270 pF		-K1271-J51		-D1271-J51	
330 pF		-K1331-J51		-D1331-J51	
390 pF		-K1391-J51		-D1391-J51	
470 pF		-K1471-J51		-D1471-J51	
560 pF		-K1561-J51		-D1561-J51	
680 pF		-K1681-J51		-D1681-J51	
820 pF		-K1821-J51		-D1821-J51	
1,0 nF		-K1102-J51		-D1102-J51	

continued on next page ...



Ordering codes for capacitors with radial straight leads, 100 Vdc

Lead spacing	2,5 mm		5,0 mm	
$h \times b \times s$ (mm)	5,5 × 3,8 × 2,5	6,5 × 5,0 × 2,5	5,5 × 3,8 × 2,5	6,5 × 5,0 × 2,5
C_R	Ordering code ¹⁾ B37979-		B37979-	B37986-
1,2 nF		-K1122-J51		-D1122-J51
1,5 nF		-K1152-J51		-D1152-J51
1,8 nF		-K1182-J51		-D1182-J51
2,2 nF		-K1222-J51		-D1222-J51

Characteristics:

Compare with standard chip capacitors.

1) The tables contain the ordering code for capacitors with radial straight leads (CECC standard), $V_R = 100$ Vdc
 – taped, reel packing
 – with a capacitance tolerance of $\pm 5\%$
 For other versions refer to "Delivery Modes and Ordering Code", page 115