

Multilayer Leaded Capacitors, EIA Standard Z5U (Y5U) / F Characteristic

Features

- Extremely high volumetric efficiency
- Non-linear capacitance change
- Y5U characteristic is also fulfilled

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	Last 2 digits of ordering code
Tape & reel	-51
AMMO pack	-54
Bulk	-00

Standard packing in bold print

Maximum ratings

- Climatic category
in accordance with IEC 68-1: 30/085/56

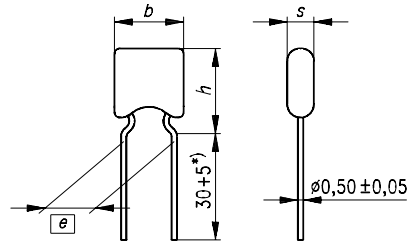
Available capacitance tolerances

Tolerance	Symbol
$\Delta C_R / C_R = \pm 20\%$	M

Standard tolerance in bold print

Rated voltage values

$V_R = 50\text{ V}$



*) Lead length for bulk packaging

KKE0286-1

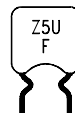
Dimensions (mm)

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


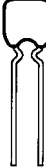



h_{\max}	5,5	6,5
b_{\max}	5,0	5,0
s_{\max}	2,5	2,5
Type	B37982-N	B37988-N

Lead spacing $[e] = 5,0 \pm 0,1$ 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



Product range

	Z5U (Y5U)/F characteristic									
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	
Type	B37982-N		B37988-N		B37982-G		B37988-G		B37985-N	
V_R (Vdc)	50		50		50		50		50	
10 nF	■				■					
15 nF	■				■					
22 nF	■				■					
33 nF	■				■					
47 nF	■				■					
68 nF	■				■					
100 nF	■				■					
150 nF	■				■					
220 nF			■				■			
330 nF										
470 nF			■				■			
680 nF										
1,0 μF			■				■			
1,5 μF									■	
2,2 μF										■
3,3 μF										■
4,7 μF										■



Ordering codes for Z5U (Y5U) / F characteristic, 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-M54		-G5103-M54		
15 nF	-N5153-M54		-G5153-M54		
22 nF	-N5223-M54		-G5223-M54		
33 nF	-N5333-M54		-G5333-M54		
47 nF	-N5473-M54		-G5473-M54		
68 nF	-N5683-M54		-G5683-M54		
100 nF	-N5104-M54		-G5104-M54		
150 nF	-N5154-M54		-G5154-M54		
220 nF		-N5224-M54		-G5224-M54	
330 nF		-N5334-M54		-G5334-M54	
470 nF		-N5474-M54		-G5474-M54	
680 nF		-N5684-M54		-G5684-M54	
1,0 μF		-N5105-M54		-G5105-M54	
1,5 μF					-N5155-M54
2,2 μF					-N5225-M54
3,3 μF					-N5335-M54
4,7 μF					-N5475-M54

1) The tables contain the ordering codes for
 - standard capacitance tolerance: M = ± 20%. Example: B37982-N5103-M54
 - standard packing: 54 = AMMO pack. Example: B37982-N5103-M54
 Other packing modes: see page 72