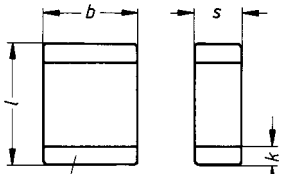
Chip capacitors (X7R)

Tape packaging in acc. with IEC 286-3:
Sizes 0603 to 1210 in 8-mm tape
(cardboard tape = code "60", blister tape = code "62")
Silver/nickel/tin termination

Sizes 1812 and 2220 in 12-mm blister tape
Silver palladium termination

Ceramic material	X7R
Rated voltage V_R	25 Vdc, 50 Vdc
IEC climatic category	55/125/56
Max. rel. capacitance change $\Delta C/C_{25}$	± 15 %
Dissipation factor tan δ	$< 25 \cdot 10^{-3}$
Insulation resistance R_{is} (at 25 °C)	$> 10^5$ MΩ or
Time constant τ ($C_R \cdot R_{is}$; at 25 °C) (whichever is lower)	> 1000 s



Termination

Dimensions in mm

Size	*l*	*b*	*s*	*k* [1]
0603	1,6 ± 0,15	0,8 ± 0,1	0,8 ± 0,1	0,3
0805	2,0 ± 0,2	1,25 ± 0,15	1,3 max.	0,5
1206	3,2 ± 0,2	1,6 ± 0,15	1,3 max.	0,5
1210	3,2 ± 0,3	2,5 ± 0,3	1,3 max.	0,5
1812	4,5 ± 0,3	3,2 ± 0,3	1,3 max.	0,5
2220	5,7 ± 0,4	5,0 ± 0,4	1,3 max.	0,5

C_R nF	Ordering code	Min. qty.	Max. qty.					
B37941; V_R = 25 Vdc		Size 0805		Capacitance tolerance ± 10 %				
68	B37941-K0683-K60	8000	40000					
100	B37941-K0104-K62	6000	30000					
B37872; V_R = 25 Vdc		Size 1206		Capacitance tolerance ± 10 %				
220	B37872-K0224-K62	6000	30000					

C_R nF	Ordering code	Min. qty.	Max. qty.					
B37931; V_R = 50 Vdc		Size 0603		Capacitance tolerance ± 10 %				
220 pF	B37931-K5221-K60	8000	40000					
330 pF	B37931-K5331-K60	8000	40000					
470 pF	B37931-K5471-K60	8000	40000					
680 pF	B37931-K5681-K60	8000	40000					
1,0	B37931-K5102-K60	8000	40000					
1,5	B37931-K5152-K60	8000	40000					
2,2	B37931-K5222-K60	8000	40000					
3,3	B37931-K5332-K60	8000	40000					
4,7	B37931-K5472-K60	8000	40000					
6,8	B37931-K5682-K60	8000	40000					
10	B37931-K5103-K60	8000	40000					

= SMD

1) Tolerance as per CECC 32 101-801