GP grade

Construction

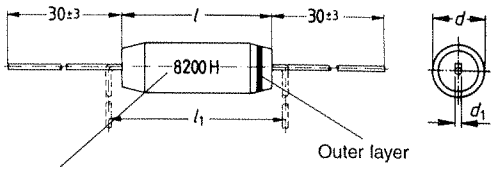
- Wound capacitor
- Central axial leads
- Available on tape

Features

- Stabilized mechanical and electrical characteristics due to a special heat treatment

Application

- RF and IF filters
- Timing circuits
- Resonant circuits



Legend: Rated capacitance (pF)
Tolerance (code letter)
Rated voltage (uncoded or color ring)

Outer layer: Bar or color ring

Length l_2	$l_{1\,min}$	d_1
11.0	15.0	0.6
16.5	20.0	0.8
21.5	25.0	0.8

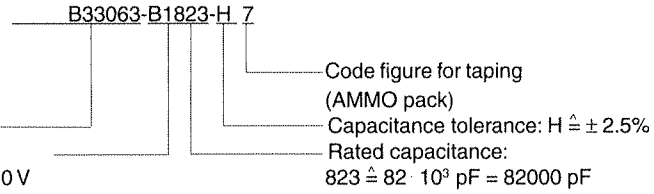
Rated dc voltage U_R Color ring			160 V red	630 V black
Type with marking of revision status and rated voltage			B 33063-B1	B 33063-B6
Rated capacitance C_R			Dimensions (mm)	
Tolerance	pF		d_{max} x l_{max}	d_{max} x l_{max}
± 1 pF ≙ F	2 to	20		4.0 x 11.0
± 1 pF; ± 5 %	> 20 to	40		4.0 x 11.0
± 1 pF; ± 2.5 %; ± 5 %	> 40 to	47		4.0 x 11.0
	> 47 to	100		4.5 x 11.0
	> 100 to	330		4.5 x 11.0
	> 330 to	1 000	4.5 x 11.0	6.0 x 11.0
	> 1 000 to	1 500	4.5 x 11.0	6.9 x 11.0
	> 15 00 to	2 200	5.0 x 11.0	7.9 x 11.0
	> 2 200 to	3 300	5.7 x 11.0	7.6 x 16.5
	> 3 300 to	7 500	7.8 x 11.0	10.4 x 16.5
± 1 % ≙ F	> 7 500 to	8 200	8.1 x 11.0	9.6 x 21.5
± 2.5 % ≙ H	> 8 200 to	10 000	8.7 x 11.0	10.4 x 21.5
± 5 % ≙ J	> 10 000 to	15 000	8.0 x 16.5	12.3 x 21.5
	> 15 000 to	22 000	9.5 x 16.5	14.5 x 21.5
	> 22 000 to	27 000	10.2 x 16.5	
	> 27 000 to	33 000	10.0 x 21.5	
	> 33 000 to	47 000	11.7 x 21.5	
	> 47 000 to	82 000	15.0 x 21.5	
	> 82 000 to	100 000	16.5 x 21.5	

The dimensions apply to the highest capacitance value.
Diameters for lower capacitance values can be interpolated.
These capacitors are preferably available on tape. Please refer to chapter "Tape packaging".

Technical data

Type		B 33063-B1	B 33063-B6
Rated dc voltage U_R		160 V	630 V
AC voltage U_{rms}		65 V	210 V
Category current I_c	l = 11.0 mm	1.0 A	1.0 A
	l = 16.5 mm	1.2 A	1.2 A
	l = 21.5 mm	1.5 A	1.5 A
IEC climatic category (DIN IEC 68-1)		40/085/21	
Lower category temperature T_{min}		- 40 °C	
Upper category temperature T_{max}		+ 85 °C	
Test duration		21 days	
Category values after damp heat test:			
Capacitance change $\lvert \Delta C/C \rvert$		≤ (0.75 % + 0.5 pF)	
Dissipation factor tan δ_F		≤ 1.4 · tabulated value	
Insulation resistance R_{IS}		≥ 50 GΩ	
Climatic category DIN 40 040		GPE	
Capacitance drift i_z [1]		≤ (0.3 % + 0.4 pF)	
Temperature coefficient α_c of capacitance [1]		- (100 to 300) · 10^{-6}/ K	
Dissipation factor tan δ (10^{-3})		≤ 100 pF … 1000 pF	… 4 700 pF … 22 000 pF … 100 000 pF
	≤ 1 kHz	- -	0.2 0.3 0.5
	10 kHz	0.2 0.3	0.3 0.4 -
	100 kHz	0.3 0.4	0.5 - -
	1000 kHz	0.4 0.7	- - -
Insulation resistance R_i (minimum as-delivered value)		100 GΩ	

Ordering code example



For ordering information refer to page 38.

[1] for $C_R \geq 100$ pF