GP grade

Construction

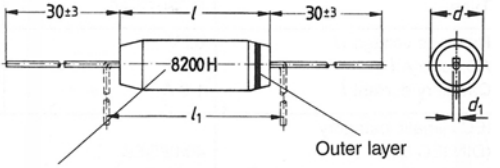
- Wound capacitor
- Central axial leads
- Available on tape

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_{ac}		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_{iF}		≥ 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

B33063-B1823-H 7

- Type
- Revision status, rated voltage
  1 ≙ 160 V
- Rated capacitance:
  823 ≙ 82 · 10^3 pF = 82000 pF
- Capacitance tolerance: H ≙ ± 2.5%
- Code figure for taping (AMMO pack)

For ordering information refer to page 38.

[1] for C_R ≥ 100 pF