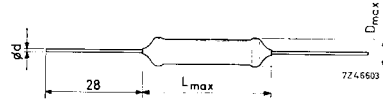
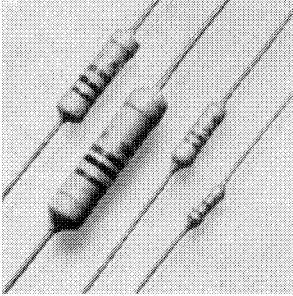


B8 305, series - CARBON RESISTORS

INSULATED TYPES 0.1W, 0.125W, 0.25W, 0.5W, 1W, 2W



Noise at resistance values
 $3.3\Omega - 1\text{M}\Omega: \leq 2\mu\text{V}/\text{V}$
 $1\text{M}\Omega - 10\text{M}\Omega: < 3\mu\text{V}/\text{V}$
 $10\text{M}\Omega - 22\text{M}\Omega: < 5\mu\text{V}/\text{V}$

resistance range ¹	maximum dissipation at:		maximum continuous operating voltage (V) (d.c. or a.c.)	dimensions (mm)			tolerance (%)	type number
	70°C ² (W)	40°C ² (W)		D _{max} Ø	L _{max}	d Ø		
10 Ω - 120 kΩ	0.1	0.2	100	1.6	7	0.4	± 5	B8 305 00B/...
10 Ω - 10 MΩ								B8 305 00A/...
3.3 Ω - 220 kΩ	0.125	0.25	250	2.5	9	0.6	± 5	B8 031 04NB/...
1 Ω - 2.7 kΩ								B8 031 04NA/...
10 Ω - 1 MΩ	0.25	0.5	350	3.7	13	0.7	± 5	B8 031 05B/...
3.3 Ω - 10 MΩ								B8 031 05A/...
10 Ω - 1.5 MΩ	0.5	1.0	500	5.2	20	0.8	± 5	B8 031 06B/...
10 Ω - 22 MΩ								B8 031 06A/...
10 Ω - 2.2 MΩ	1	1.5	750	6.8	28	1.0	± 5	B8 031 07B/...
10 Ω - 22 MΩ								B8 031 07A/...
10 Ω - 10 MΩ	2	3	1000	9.3	39	1.0	± 5	B8 305 08B/...
10 Ω - 10 MΩ								B8 305 08A/...

Values: tolerance ± 5% E 24 series; tolerance ± 10% E 12 series; ² ambient temperature.

general data	dissipation					
	0.1 W	0.125 W	0.25 W	0.5 W	1 W	2 W
critical resistance (Ω)	100	—	490	500	560	500
insulation resistance (× 1000 MΩ)	50	50	1000	1000	1000	20
stability after 2000 hours (ΔR at P _{nom}) (%)	1	3	4	4	6	6
maximum rise in surface temperature at P _{nom} (°C)	30	30	30	55	70	85

Derating curves (power rating as a function of ambient temperature)

