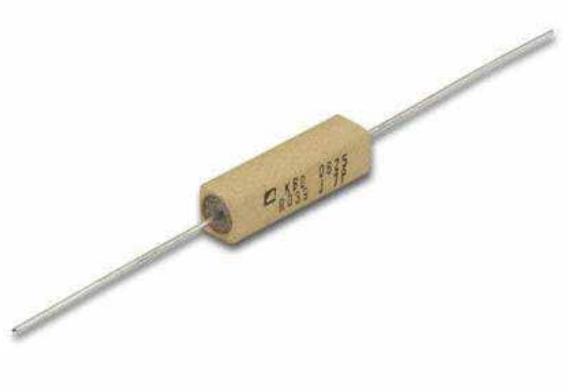
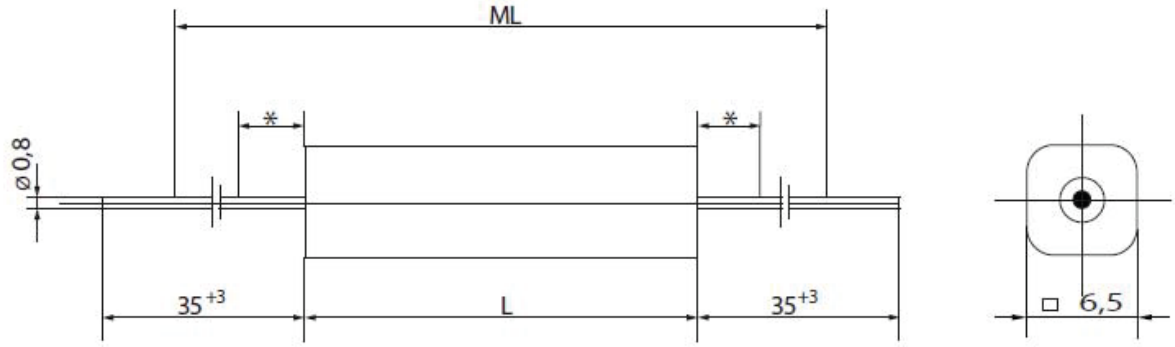
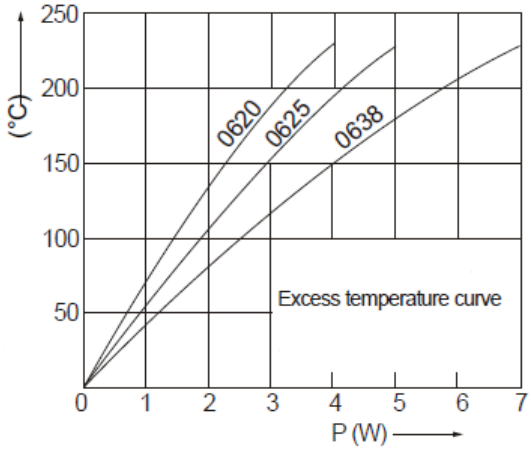


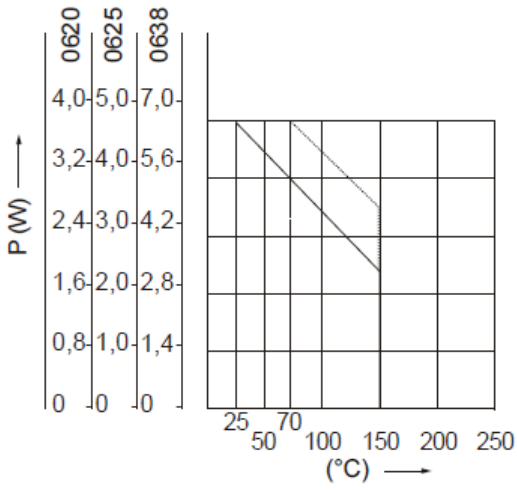
CERAMIC CASE RESISTORS KBD-06 MODEL

TECHNICAL DESIGN



GENERAL CHARACTERISTICS





GENERAL FEATURES

The resistors of the KBD series are low-power resistor, the main characteristics for this resistors are the compactness, the possibility to made low value of resistance and the small dimensions that permit to use this products on electronic printed boards. The terminal may be tinned and permit a fast insert on electric board.

GENERAL FEATURES

Nominal resistance	series E 12 (10%), Setries E 24 (5%), DIN 41426
Climatic Category (according to IEC 68)	55/255/10
Solderability (260 °C x10s.)	≤ 1% + 0,1 Ω
Temperature cycling (-55°C / +200°C)	≤ 2% + 0,1 Ω
Damp heat (21 days 40 °C / 95% r.h.)	≤ 3% + 0,1 Ω
Resistance range Ts = 255°C	1,000 h : -1.5 fino a +4.0%
	10,000 h -2.: 0 fino a +6.0%
	100,000 h -3.: 0 fi no +10.a 0%

The mentioned values apply for 99,7% of all resistors. For low. value-resistors, the mentioned variations may be exceeded by 0,1 Ω.
Reliability : At 70 °C, ambient temperature,25% r.h. and 255°C surface temperature standard rating for complete failure : <= 100 x 10-9/h.

Note :
Ta = Ambient Temperature
Ts = Surface Temperature

For ceramic case resistors, the solderability of connecting wires is limited in the range of 5 mm

The measure "ML" indicates the test points of measuring, as the lenght of the terminals of very low-valued resistors influences the measuring result.

GENERAL FEATURES

Style		KBD 0620 (KBD 0618)	KBD 0625	KBD 0638
Dimensions	**L=**	20 ±1 mm (18 ±1 mm)	25 ±1 mm	38 ±1 mm
	ML=	40 ±1 mm	45 ±1 mm	60 ±1 mm
Resistance range		R0062 - R051	R0091 - R068	R013 - R10
Resistance tolerances		K (± 10%) J (± 5%) up to F (±1%) in preparation		
Power rating P_N		4 W	5 W	7 W
Dissipation at Ta=25°C	**Ts= 150°C**	1,8 W	2,4 W	3,1 W
	Ts= 200°C	2,8 W	3,6 W	4,9 W
	Ts= 255°C	4,0 W	5,0 W	7,0 W
Dissipation at Ta=70°C	**Ts= 200°C**	1,9 W	2,5 W	3,5 W
	Ts= 250°C	2,9 W	3,7 W	5,0 W
	Ts= 300°C	4,0 W	5,0 W	7,0 W
Dielectric withstanding voltage		≥ 2000 Veff		
Limiting voltage		U = RADQ (PN x R)		
Temperature coefficient		CuNi 44 / NiCr: -80...+200 x 10^{-6}/K		
Lim. surface temperature		CuNi 10: 200°C CuNi 44 / NiCr: 300°C		
Marking		Cipher stamped, the marking of values according to DIN/IEC 62		