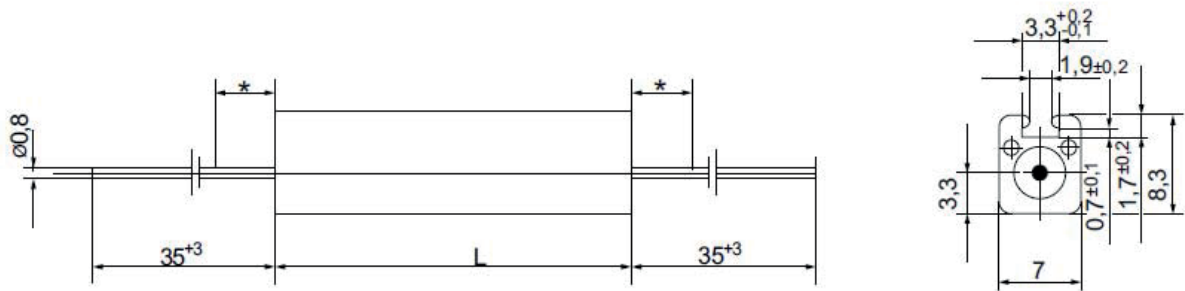
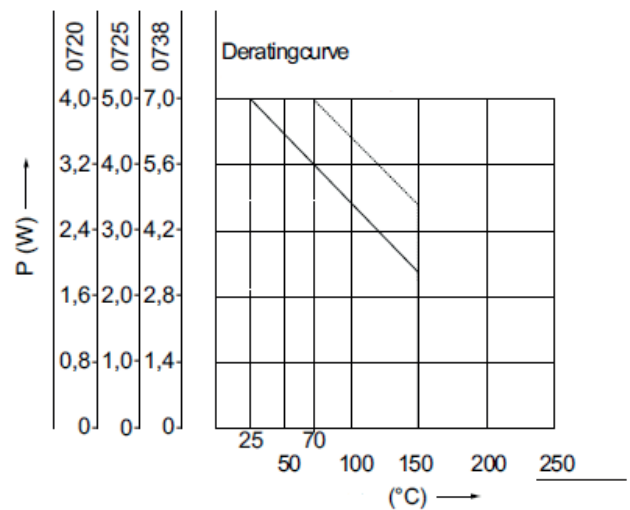
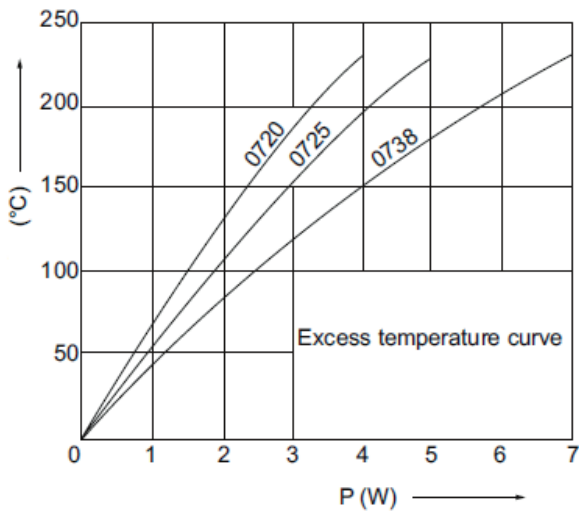


CERAMIC CASE RESISTORS FX-07 MODEL

TECHNICAL DESIGN



GENERAL FEATURES



GENERAL FEATURES

The resistors of the FX series are low-power resistor, the main characteristics for this resistors are the compactness 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.

ELECTRICAL CHARACTERISTICS

Nominal resistances	series E 12 (10%), Series E 24 (5%), DIN 41426
Climatic category (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 indicated values are valid for 99.7% of all resistors. In the case of resistors with low ohmic values, the indicated variations can be exceeded by 0.1 Ω.

Reliability: Indicative value at an ambient temperature of 70 °C, a relative atmospheric humidity of 25% and a surface temperature (Ts) of 255 °C: $\leq 100 \times 10^{-9}/h$ for total failure.

Note :

Ta = Ambient temperature

Ts = Surface temperature

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

GENERAL FEATURES

Style DIN 45921		FX 07020 (FX 0718)	FX 0725	FX 0738
Dimensions	L=	20 ±1 mm (18 ±1 mm)	25 ±1 mm	38 ±1 mm
Carrier		Fiber glass core		
Resistance range	CuNi 10 CuNi 44/NiCr	R051 - R11 R12 - 9K1	R10 - R22 R24 - 18K	R18 - R39 R43 - 33K
Resistance tolerances		K (± 10%) CuNi 10 / CuNi 44 / NiCr J (± 5%) CuNi 44 / NiCr		
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		150 V	200 V	250 V
Temperature coefficient		CuNi 10: +350...+450 x 10 ⁻⁶ /K 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		