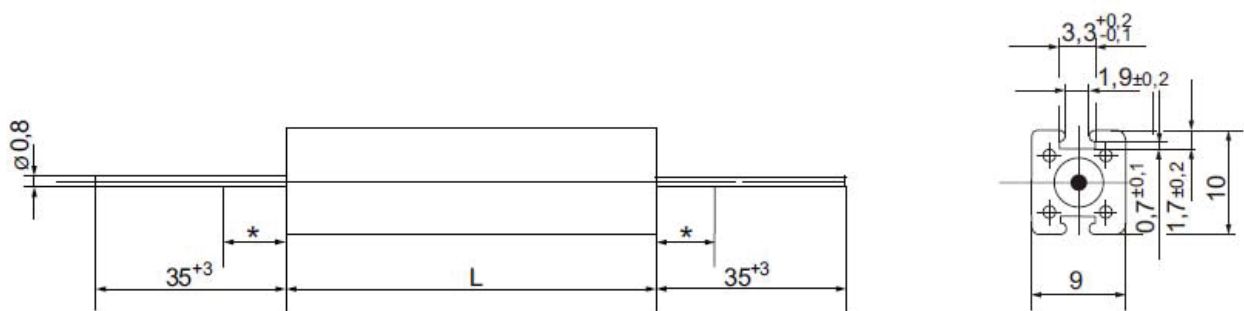


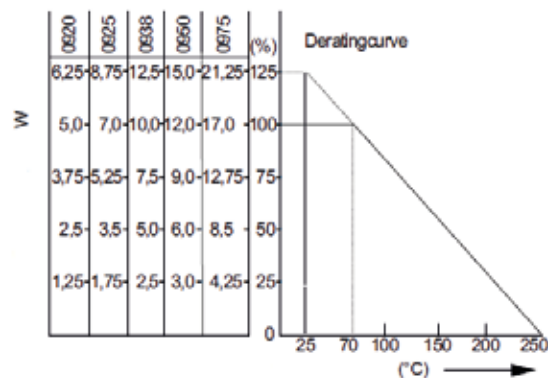
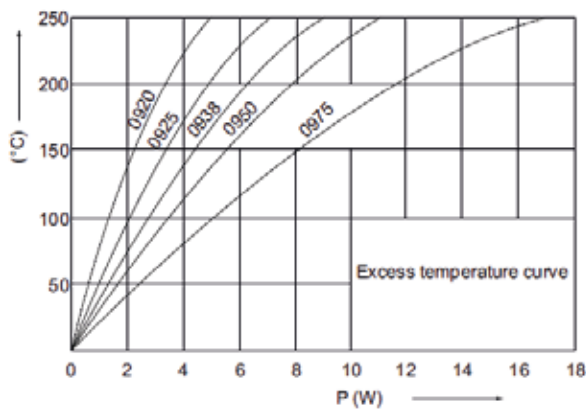


CERAMIC CASE RESISTORS FX-09 MODEL

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.

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 : $\leq 100 \times 10^{-9}/h$.

Note :

Ta = Ambient Temperature

Ts = Surface Temperature

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

GENERAL FEATURES

Style DIN 45921		FX 09020 (FX 0918)	FX 0925	FX 0938	FX 0950	FX 0975
Dimensions	L=	20 ±1 mm (18 ±1 mm)	25 ±1 mm	38 ±1 mm	50 ±1,5 mm	75 ±2 mm
Carrier	Fiber glass cordel					
Resistance range	CuNi 10 CuNi 44/NiCr	R051 - R11 R12 - 9K1	R10 - R22 R24 - 18K	R18 - R39 R43 - 33K	R27 - R56 R62 - 47K	R47 - 1R0 1R1 - 82K
Resistance tolerances	K (± 10%) CuNi 10 / CuNi 44 / NiCr J (± 5%) CuNi 44 / NiCr					
Power rating P_N		5 W	7 W	9 W	11 W	17 W
Dissipation at Ta=25°C	Ts= 150°C	2,8 W	4,0 W	5,3 W	6,8 W	9,8 W
	Ts= 200°C	4,1 W	6,0 W	7,6 W	9,4 W	14,0 W
	Ts= 255°C	6,25 W	8,75 W	12,5 W	15,0 W	21,25 W
Dissipation at Ta=70°C	Ts= 200°C	2,9 W	4,2 W	5,5 W	7,0 W	10,0 W
	Ts= 250°C	4,3 W	6,2 W	7,8 W	9,7 W	14,4 W
	Ts= 300°C	5,0 W	7,0 W	9,0 W	11,0 W	17,0 W
Dielectric withstanding voltage	≥ 2000 Veff					
Limiting voltage		150 V	200 V	250 V	350 V	500 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					