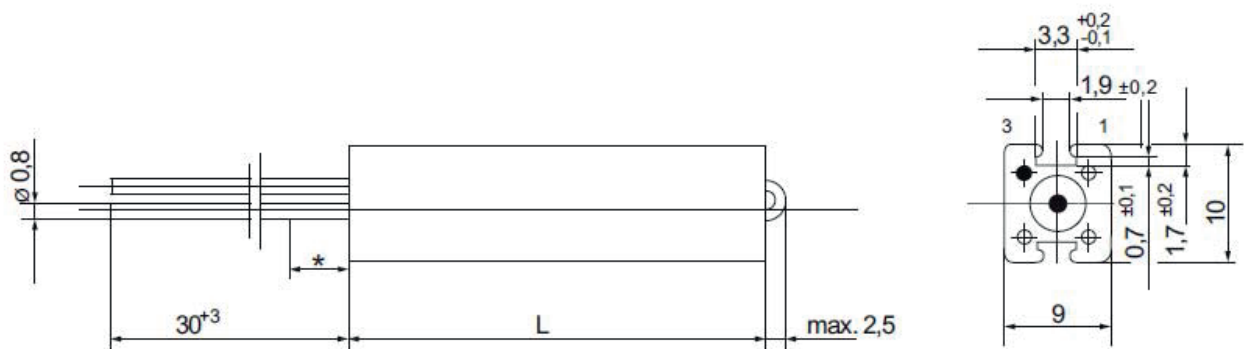
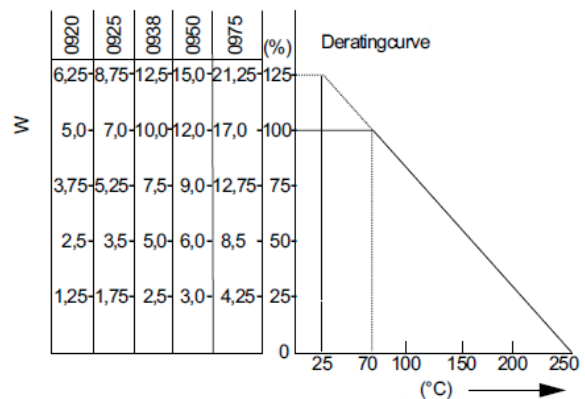
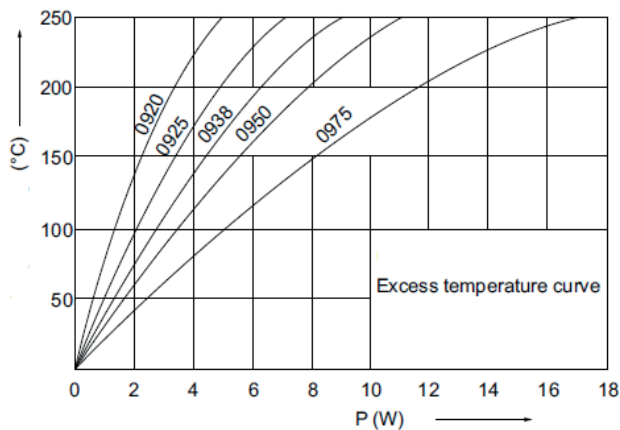


CERAMIC CASE RESISTORS FH-07 MODEL

TECHNICAL DESIGN



GENERAL FEATURES



GENERAL FEATURES

The FH model wire wound resistors in ceramic case are low power resistors, the main characteristics of these resistors are the compactness and the small dimensions which allow the use of these products also on electronic boards. The terminals are in fact weldable and easily deformed.

ELECTRICAL CHARACTERISTICS

Nominal resistance	series E 12 (10%), Series 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

GENERAL FEATURES

Style DIN 45921		FH 07020 (FH 0718)	FH 0725	FH 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	T_s= 150°C	1,8 W	2,4 W	3,1 W
	T_s= 200°C	2,8 W	3,6 W	4,9 W
	T_s= 255°C	4,0 W	5,0 W	7,0 W
Dissipation at Ta=70°C	T_s= 200°C	1,9 W	2,5 W	3,5 W
	T_s= 250°C	2,9 W	3,7 W	5,0 W
	T_s= 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		
Fixing pieces		SY 8,5 ; SY 8,5/1		
Marking		Cipher stamped, the marking of values according to DIN/IEC 62		