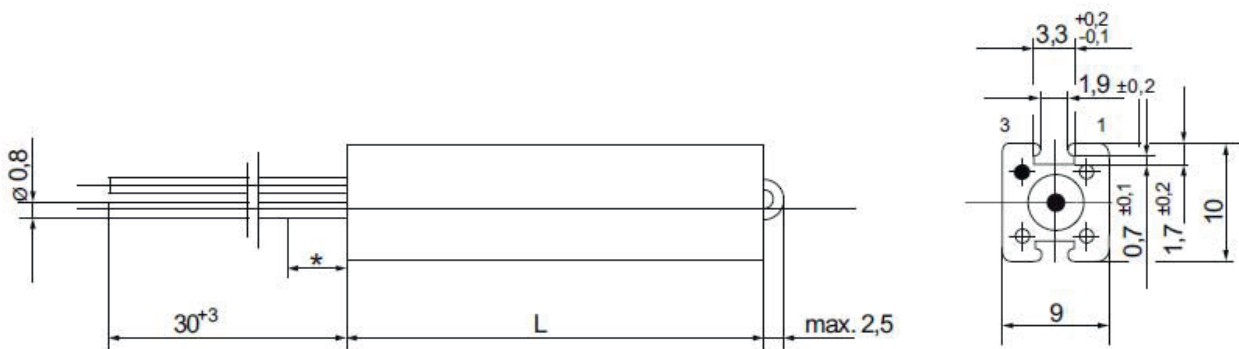


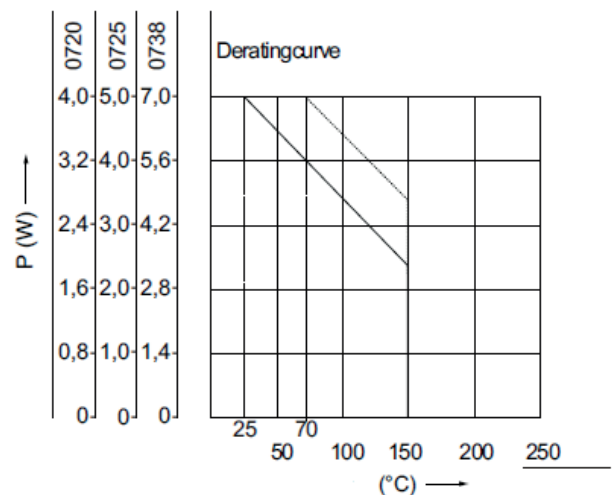
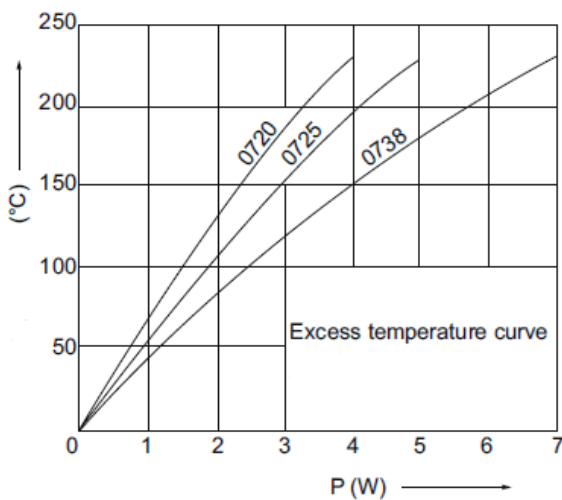


CERAMIC CASE RESISTORS FH-09 MODEL

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.

GENERAL FEATURES

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

Modello DIN 45921		FH 09020 (FH 0918)	FH 0925	FH 0938	FH 0950	FH 0975
Dimensioni	L=	20 ±1 mm (18 ±1 mm)	25 ±1 mm	38 ±1 mm	50 ±1,5 mm	75 ±2 mm
Supporto	Cavo a fibre di vetro					
Range di resistenza	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
Tolleranza della resistenza	K (± 10%) CuNi 10 / CuNi 44 / NiCr J (± 5%) CuNi 44 / NiCr					
Potenza nominale P_N		5 W	7 W	9 W	11 W	17 W
Dissipazione di potenza a Ta=25°C	T_s = 150°C	2,8 W	4,0 W	5,3 W	6,8 W	9,8 W
	T_s = 200°C	4,1 W	6,0 W	7,6 W	9,4 W	14,0 W
	T_s = 255°C	6,25 W	8,75 W	12,5 W	15,0 W	21,25 W
Dissipazione di potenza a Ta=70°C	T_s = 200°C	2,9 W	4,2 W	5,5 W	7,0 W	10,0 W
	T_s = 250°C	4,3 W	6,2 W	7,8 W	9,7 W	14,4 W
	T_s = 300°C	5,0 W	7,0 W	9,0 W	11,0 W	17,0 W
Rigidità dielettrica	≥ 2000 Veff					
Tensione limite nominale		150 V	200 V	250 V	350 V	500 V
Coefficiente di temperatura	CuNi 10: +350...+450 x 10 ⁻⁶ /K CuNi 44 / NiCr: -80...+200 x 10 ⁻⁶ /K					
Limite di temperatura superficiale ammissibile	CuNi 10: 200°C CuNi 44 / NiCr: 300°C					
Parti di fissaggio	SC 10 ; SC 25 ; SY 8,5 ; SY 8,5/1					
Timbratura - Marcatura	Testo in chiaro, contrassegno del valore secondo DIN/IEC 62					