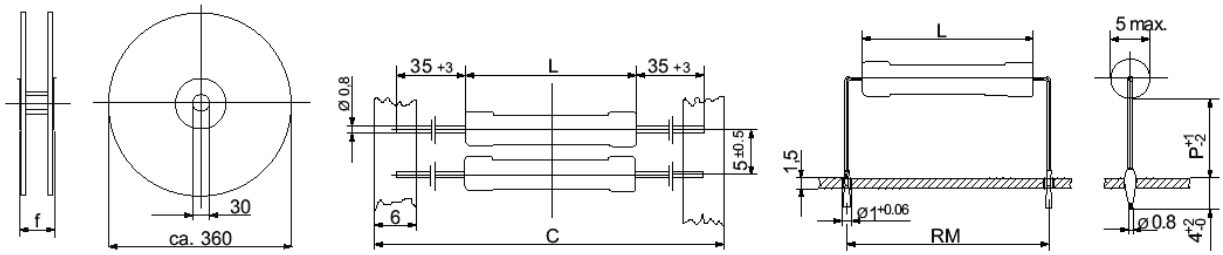
www.italohm.com
info@italohm.com

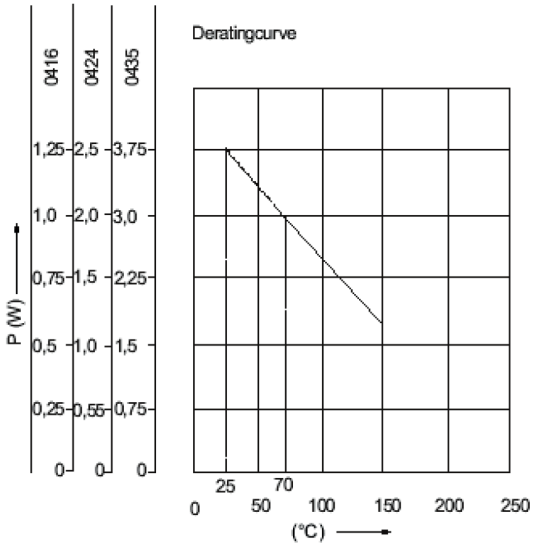
CEMENTED WIREWOUND RESISTORS MODEL SFD

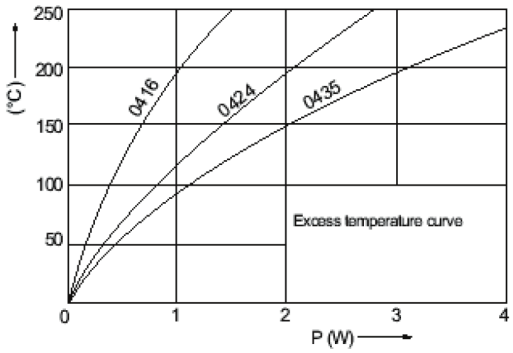
TECHNICAL DESIGN



SFD...G SFD...P...

GENERAL FEATURES





ItalOhm S.r.l Via della meccanica, 13 | 36100 Vicenza - Italy
VAT: 02642920165 R.I.: 02642920165 R.E.A.: 301433
+39 0444 965.365

GENERAL FEATURES

The resistors of the SFD 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 = 250°C	1,000 h : -1.0 fino a +3.0%
	10,000 h -1.: 5 fino a +5.0%
	100,000 h -2.: 0 fi no +8.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 250°C surface temperature standard rating for complete failure : <= 100 x 10-9/h.

Note :
Ta = Ambient Temperature
Ts = Surface Temperatura

GENERAL FEATURES

Style		SFD 0416 G SFD 0416 P...	SFD 0424 G SFD 0424 P...	SFD 0435 G
Dimensions	**L =**	max. 16 mm	max. 24 mm	max. 35 mm
	P =	8mm or 15mm		-
	RM =	20 mm	27,5 mm	-
	C =	94 ±2 mm	101 ±2 mm	112 ±2 mm
	f =	max. 109 mm	max. 116 mm	max. 127 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 **T_A = 70°C**		1 W	2 W	3 W
Dissipation at Ta=25°C	**Ts= 200°C**	0,85 W	1,7 W	2,55 W
	Ts= 250°C	1,25 W	2,5 W	3,75 W
Dissipation at Ta=70°C	**Ts= 200°C**	0,6 W	1,2 W	1,8 W
	Ts= 265°C	1,0 W	2,0 W	3,0 W
Type of resistor		P = Wire leads with bulk goods		
		G = Drum		
Limiting voltage		U = RADQ (P_N x R)		
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		