

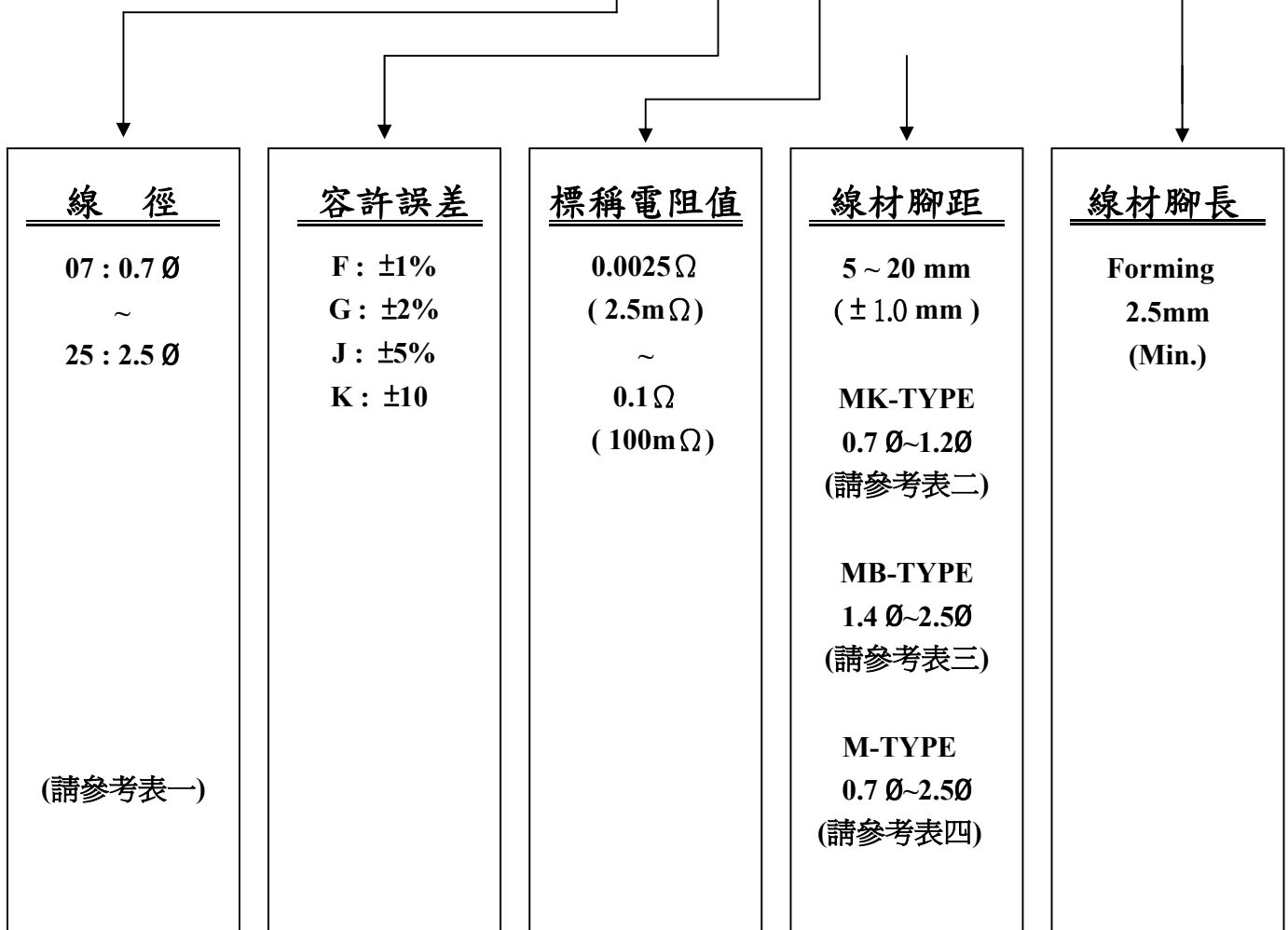


錳銅線規格 LOW VALUE WIRE RESISTORS

1. **適用範圍** 本規範僅適用於本廠所生產之錳銅線成品規格。
2. **類型** 類型依種類、容許誤差及標稱電阻值、線材腳距及腳長等，如下列符號之排列構成之。

(例) 貨品名稱：RW 1.0Ø 5% 0.02Ω MK20X06

貨品編號：RW 10 J R02 MK20 X 6





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3. 材質

代號	材料	成分
CMW	Copper-Manganese wire	Cu, Mn, Ni, Fe

4. 特性

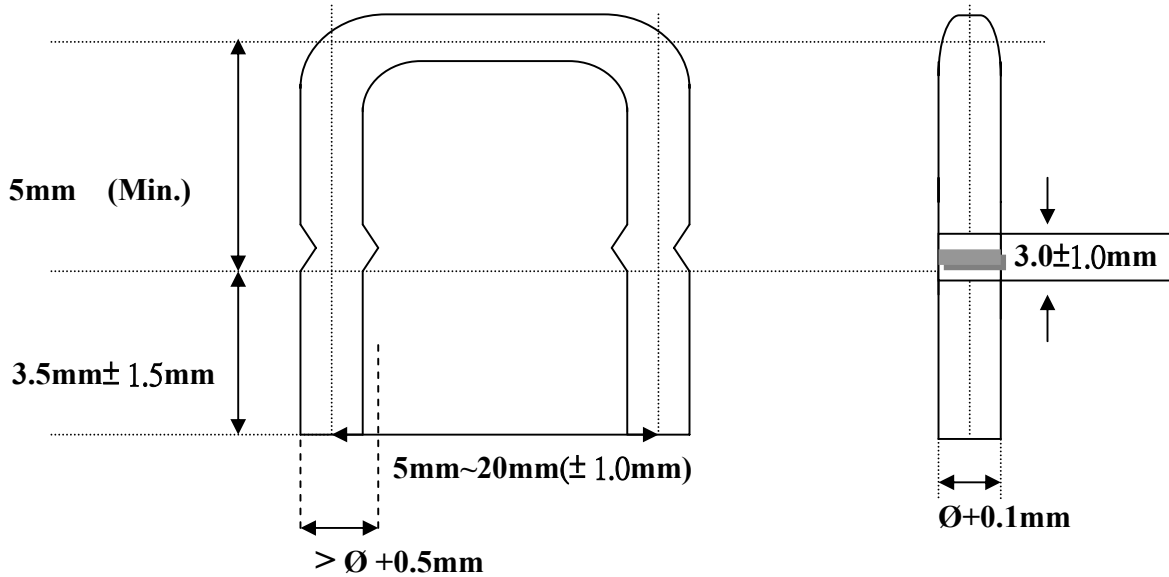
d (mm)	Max. rating current (A)	Resistance range (mΩ)	Operating Temp.
0.7	4.0	20 ~ 70	-40 +200
0.8	4.5	10 ~ 50	
0.9	5.0	10 ~ 40	
1.0	5.5	10 ~ 30	
1.1	6.0	6 ~ 20	
1.2	7.0	2.5 ~ 20	
1.3	7.5	5 ~ 20	
1.4	8.0	5 ~ 20	
1.5	9.0	3 ~ 20	
1.6	9.5	3 ~ 15	
1.8	11	3 ~ 10	
2.0	12	3 ~ 10	
2.3	14	3 ~ 5	
2.5	15	3 ~ 5	

**Customized resistance values are available upon request

表一

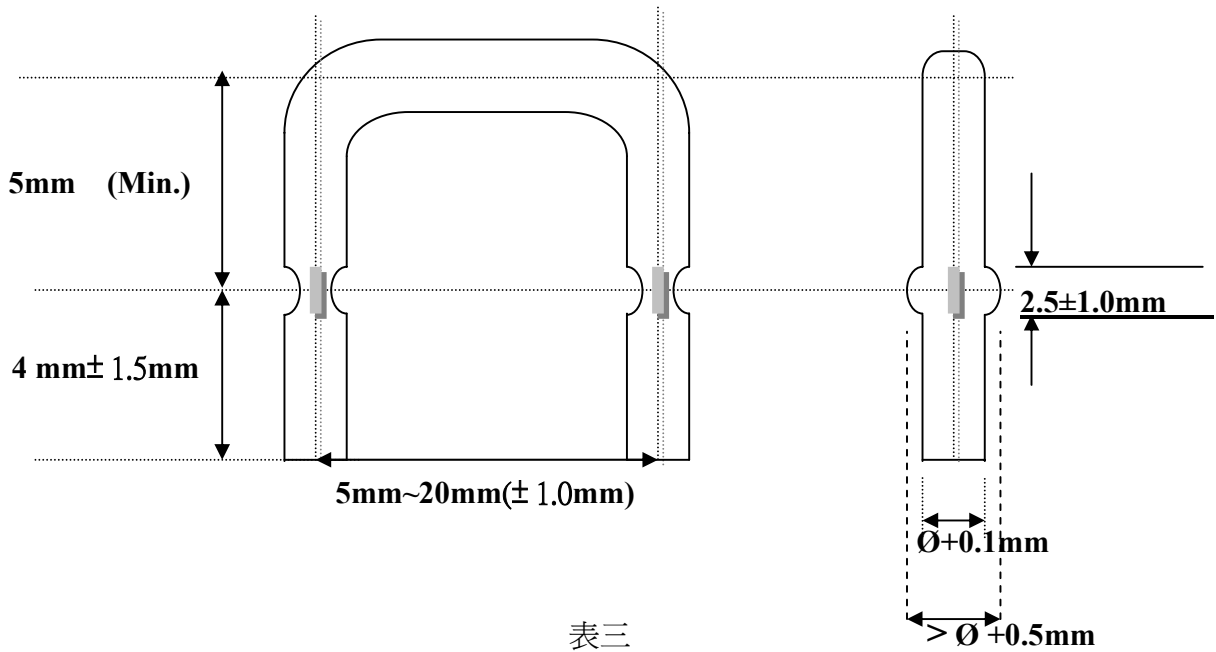
5. 尺寸

MK Type (0.7 Ø ~ 1.2 Ø)



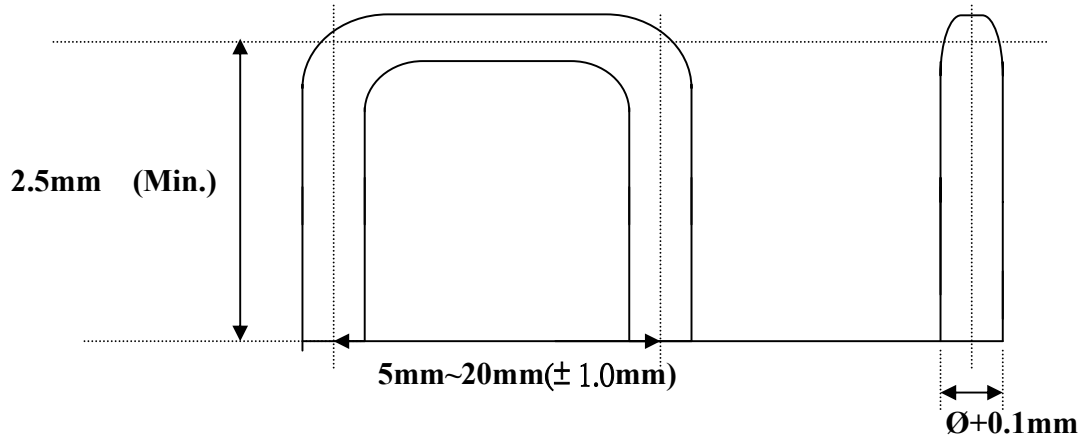
表二

MB Type (1.4 Ø ~ 2.5 Ø)



表三

M Type (0.7 \varnothing ~ 2.5 \varnothing)



表四



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6. 規格說明

項目	規格值	試驗方法 (依據 JIS C 5202)
電阻值與誤差	Over 5m ohm $\pm 5\%$ (J) Below 5m ohm $\pm 10\%$ (K)	Comply with 5.1
溫度係數	Copper-Manganese Wire $\pm 100\text{PPM}/^\circ\text{C}$	Copper-Manganese Wire
短時間過負荷	within $\pm 2\%$ No evidence of mechanical damage.	Comply with 5.5 Rated voltage X 2.5 times, 5s
端子強度	No evidence of mechanical damage.	Wire dimension over 1.0mm 5kg/10sec. Wire dimension below 0.8mm 2kg/10sec.
浸錫試驗	within $\pm 1\%$ No evidence of mechanical damage.	$260\pm 5^\circ\text{C}$, $3.5\pm 0.5\text{s}$ After test leave for 3h.
可焊性試驗	Covered with new solder by 95% at least.	Test temperature of solder: $235\pm 5^\circ\text{C}$ Dipping time in solder: $3\pm 0.5\text{s}$
溫度循環試驗	within $\pm 1\%$ No evidence of mechanical damage.	Low side : $-40\pm 3^\circ\text{C}/30\text{min}$, Room temp. : 10 to 15min High side : $200\pm 2^\circ\text{C}/30\text{min}$, Room temp. : 10 to 15min 5 cycles
耐濕負荷試驗	within $\pm 5\%$	$40\pm 2^\circ\text{C}$, 90 to 95%RH, 1000h Rated voltage (90 min ON, 30 min OFF)
負荷壽命試驗	within $\pm 5\%$	$70\pm 2^\circ\text{C}$, 1000h Rated voltage (90 min ON, 30 min OFF)

表五