

特征 Features

1-7瓦	1-7watts
精度±5%	Tolerance ±5%
电阻温度系数低至±40ppm/°C	TCR down to ±40ppm/°C
大功率	High power
符合RoHS、REACH要求	RoHS and REACH compliant
特殊规格可以订做	Customizable

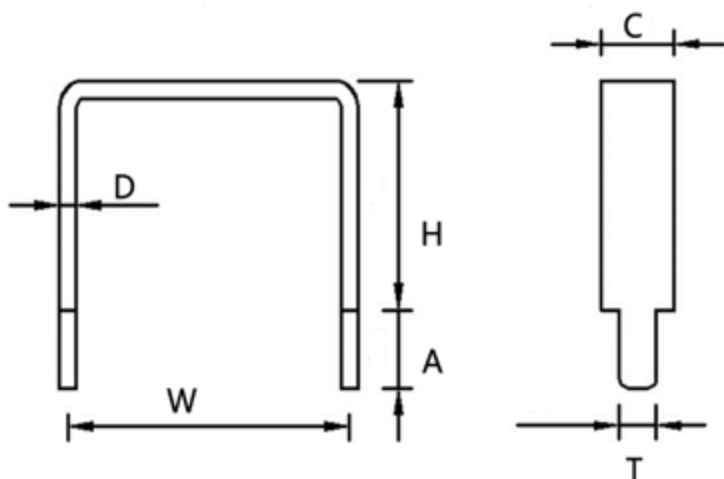


应用范围 Applications

电流采样	Current Sensing
驱动技术	Drive technology
家用电器	Household Electric Appliances
变频器	Frequency converter
电源产品	Power supply products

标准尺寸规格 Standard Size

C/mm	D/mm	W/mm	H/mm	A/mm	T/mm
2.4~6	0.3~1.3	5~30	5~30	3.5±0.2	1.2/1.5



订货提供:

- 1.跨距 "W"
- 2.高度范围 "H"
- 3.阻值和额定功率

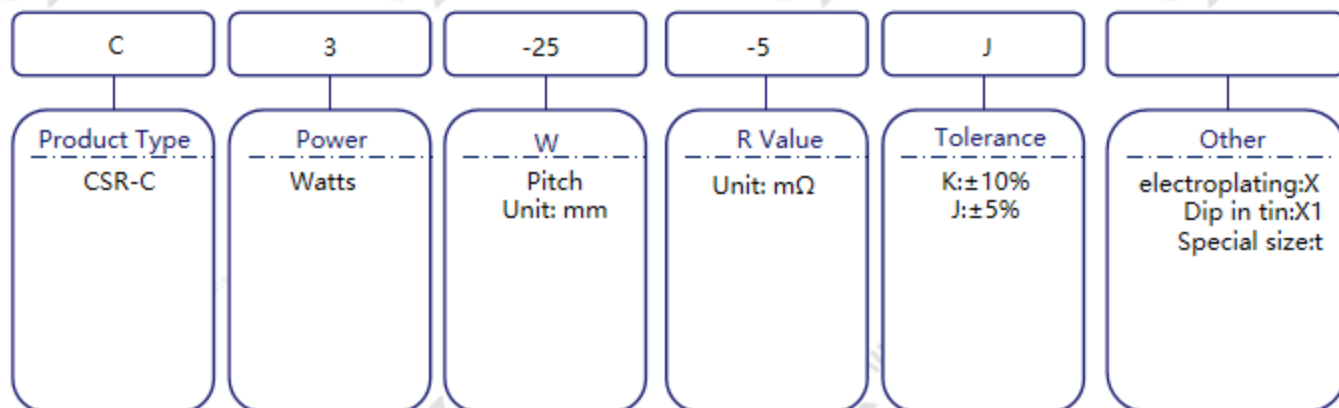
NOTE:

Contact YeZhan for:
1.Variations of "W"
2.Variations of "H"
3.Value and rated power

扁线型采样电阻 (CSR) 线厚宽、常规跨距及可选阻值 (mΩ) 对照表 Type Data

线厚宽 /mm	常规跨距(mm)及阻值可选范围 (mΩ)					材料 Materials	TCR /ppm/ °C	过电流 /A
	10	15	20	25	30			
1.3×3.5	2.5~7	2.8~7.6	3.6~8.4	4~8.8	4.4~9	Constantan	±40	30
1.1×3.3	2~6	2.5~6.5	3~7	3.5~7.5	4~8	Copper-Nickel	±200	30
	7~20	8~21	10~23	11~24	13~25	NiCr	±120	25.5
	3~9	3.5~9.5	4.5~10.5	5~11	5.5~11.5	Constantan	±40	28
0.9×4	3.3~9.5	4~10	5~10	5.5~11	6.5~12	Constantan	±40	28
0.85×2.4	6~16	7~17	8~18	9~19	10~20	Constantan	±40	15
0.8×3.3	4.5~13	5.5~13.5	6.5~14.5	7.5~15.5	8.5~16.5	Constantan	±40	20
0.8×2.4	6~17	7.5~18.5	9~20	10.5~21	12~22.5	Constantan	±40	15
0.6×2.4	0.9~2.2	1~2.4	1.2~2.5	1.3~2.6	1.5~2.8	Constantan	±40	11.2
0.6×6	4~8	4~9	5~10	5~10	6~11	Constantan	±40	28
0.6×2.4	9~22	10~24	12~25	13~26	15~28	Constantan	±40	11.5
0.6×2.4	21~49	23~54	27~56	30~58	34~63	NiCr	±120	10
0.5×3.3	7.5~20	9~22	10~23	11.5~24	12.5~26	Constantan	±40	13
0.5×3.3	17~45	21~49	23~51	26~54	29~58	NiCr	±120	11
0.5×3	9~22	10~24	11~25	13~26	14~28	Constantan	±40	12
0.4×3.3	9~25	11~27	12.5~29	14.5~31	16.5~33	Constantan	±40	10
0.4×3.3	21~56	25~60	29~65	33~69	38~74	NiCr	±120	9
0.4×3	10~27	13~29	14~31	16~34	19~36	Constantan	±40	9.5
0.4×3	23~60	30~65	32~69	36~76	43~81	NiCr	±120	8.5
0.4×2.4	12.5~35	15~37.5	17.5~40	20~42.5	22.5~45	Constantan	±40	7.5
0.4×2.4	29~78	34~84	40~90	45~95	51~101	NiCr	±120	7
0.3×6	5~24	7~25	8~26	9~28	11~29	Constantan	±40	14
0.3×4	8~36	10~38	12~40	14~43	16~44	Constantan	±40	9
0.3×3.5	9~41	11~43	13~45	16~48	18~50	Constantan	±40	8.5
0.3×3.3	9~43	12~46	14~48	16~50	19~53	Constantan	±40	8
0.3×3.3	20~98	26~103	31~109	36~114	42~120	NiCr	±120	7
0.3×3	10~45	13~50	15~53	18~56	21~58	Constantan	±40	7

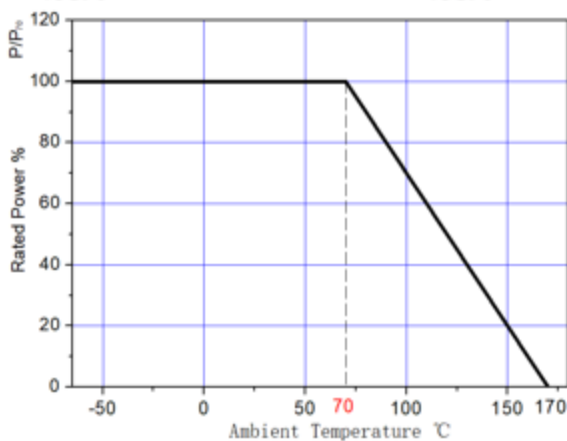
订购信息 Ordering Information



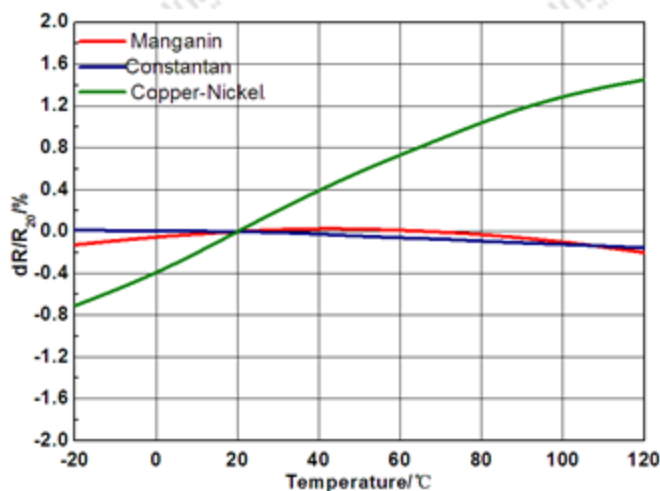
代号 Symbol	材料 Materials	电阻率 Resistance Rate
2	锰铜 Manganin	44μΩ. cm
1	康铜 Constantan	48μΩ. cm
6	铜镍 Copper-Nickel	30μΩ. Cm

工作特性 Performance Data

降功率曲线 Power Derating



温度系数曲线 TCR Derating



TCR (ppm/°C) : Test conditions at 20°C~120°C.

» 产品尺寸和性能 Product Size And Performance

项目 Items	参数 Parameters
材料 Material	康铜 Constantan
图解 Diagrammatize	
A	3.5mm±0.2mm
H	7.0mm±2mm
W	25mm±0.5mm
T	1.2mm±0.2mm
D	1.1mm±0.1mm
C	3.3mm±0.2mm
阻值 Value	5mΩ±5%
额定功率 rated power	3W

» 耐久性测试 Endurance Test

Items	Additional Requirements	Reference	Limits
Operational Life	70±2°C, 1000h Rated voltage (90 min ON, 30 min OFF)	MIL-STD-202 Method 108	±1%
Biased Humidity	1000hrs 85°C/85%RH. Note:Specified conditions:10% of operating power.	MIL-STD-202 Method 103	±1%
Temperature Cycling	1000 Cycles(-55°C to +125°C)	JESD22 Method JA-104	±1%
Solderability	245°C±5°C,5s±0.5s	J-STD-002C	95% Coverage Minimum
Short Time Overload	5×Rated power for 5 s	MIL-STD-202 Method 301	±1%
Resistance to Soldering Heat	260°C±5°C, 10s±1s	MIL-STD-202 Method 210	±0.5%
Vibration	(10 - 2000 Hz) ,5 g's for 20 min, 12 cycles each of 3axis.	MIL-STD-202 Method 204	±0.5%

» 包装Packaging

散装, 内外双包装 Bulk, Internal And External Package

» 版本信息 Version History

版本 Version	日期 Date	修订描述 Description of amendment	拟定 Draft	审核 Checked
A1.0	21-Sep-2022	首版发行	张雅兰	胡紫阳