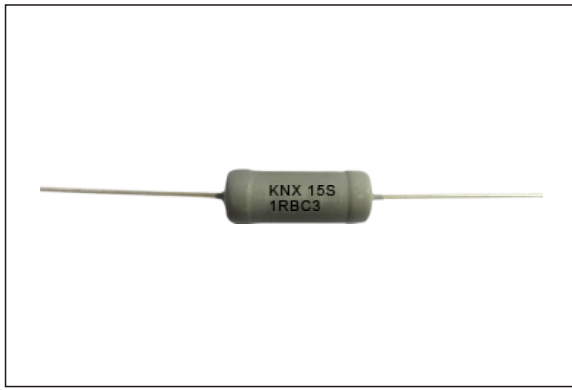
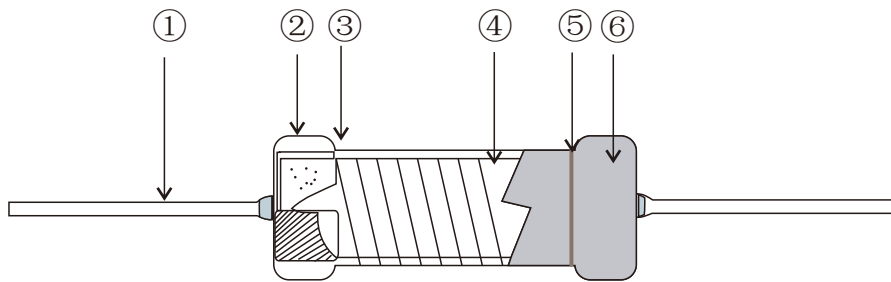


KNX 高精密线绕电阻 High Precision Wire Wound Resistors



本体颜色: Body Color
 标准品: Standard (Gray 灰色)
 标示: Marking
 文字: Alphanumeric
 (根据客户要求提供相应标识)
 (According to the customer request to provide corresponding identification)

● 结构图 Construction



1	2	3	4	5	6
端子线	线帽	瓷棒	绕线	标示	绝缘涂料
lead wire	cap	ceramic base	wire wound	marking	insulation coat

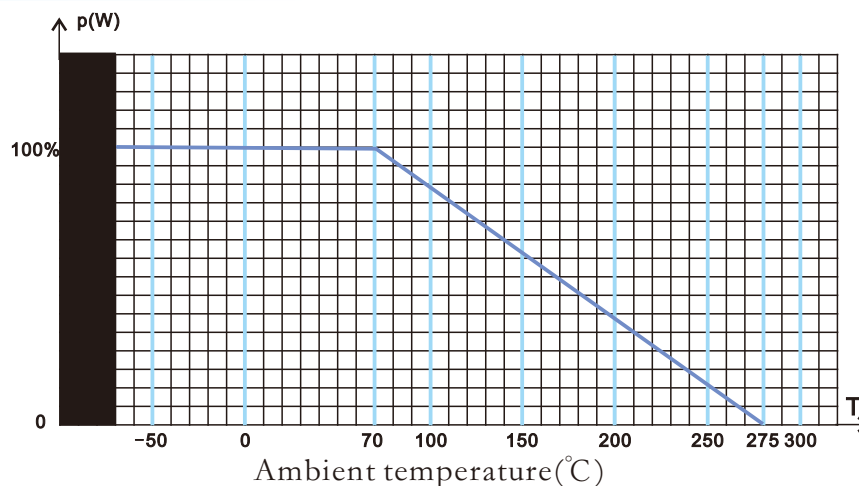
● 特性 Feature

- I 高精度 High Precision
- II 低温度系数 Low T.C.R
- III 工作温度范围宽 Wide Working Temperature Range
- IV 抗脉冲性能好 Perfect Pulse Voltage

● 参考规格 Reference Standards

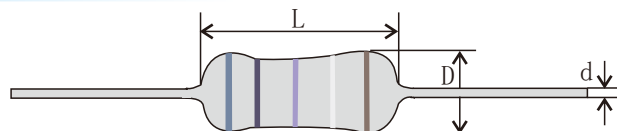
JIS C 5201-1

● 额定温度下降曲线图 Derating Curve



KNX 高精密线绕电阻 High Precision Wire Wound Resistors

尺寸、功率、阻值范围与耐电压 Dimensions And Resistance etc



规格 Type	功率 Power	阻值范围 Resistance Range (Ω)	尺寸Dimensions(mm)			最高使用电压 Max working Voltage	耐电压 Dielectric with standing	使用环境温度 Ambient temperature	温度系数 TCR PPM/ $^{\circ}$ C
			L \pm 1	D \pm 0.5	d \pm 0.05				
KNX15S	1/2W	0.1~2.5K Ω	10	2.5	0.6	80V	125V	-55 $^{\circ}$ C~275 $^{\circ}$ C	C5= \pm 15 C3= \pm 25 C2= \pm 50 C1= \pm 100
KNX16S	1W	0.1~6.8K Ω	12	3.5	0.7	130V	300V		
KNX17S	2W	0.1~10K Ω	14	5	0.8	140V	520V		
KNX18S	3W	0.1~22K Ω	16	6	0.8	200V	600V		
KNX19S	5W	0.1~55K Ω	25	8	0.8	400V	700V		

性能Performance

IEC	IEC	TEST	PROCEDURE	REQUIREMENTS
60115-1	60068-2			permissible change Δ R/R
CLAUSE	TEST			
	METHOD			
4.5	—	resistance	(%)	F(\pm 1);D(\pm 0.5);C(\pm 0.25);B(\pm 0.10);W(\pm 0.05);P(\pm 0.025)
4.8	—	temperature coefficient (ppm/ $^{\circ}$ C)	at 25/85/25 $^{\circ}$ C or under request at 25/-55/25 $^{\circ}$ C or at 25/125/25 $^{\circ}$ C	C5(\pm 15);C3(\pm 25);C2(\pm 50);C1(\pm 100);C0(NO TCR)
4.13	—	short time overload;	room temperature; U=2.5* $\sqrt{P70}$ *R \leq 2U _{max} ;5S	\pm 0.25%R+0.05 Ω
4.17.2	58(Td)	solderability	solder bath method; 230 $^{\circ}$ C;3S	good tinning \geq 95% covered;no visible damage
4.18.2	58(Td)	resistance to soldering heat	solder bath method 230 \pm 5 $^{\circ}$ C;5 \pm 1S	\pm 0.25%R+0.05 Ω
4.19	14(Na)	rapid change of temperature	30 minutes at -55 $^{\circ}$ C 30 minutes at +155 $^{\circ}$ C 5cycle	\pm 0.25%R+0.05 Ω
4.22	6(B4)	vibration	6h 10to 2000Hz 1.5mm or 196m/s	\pm 0.25%R+0.05 Ω
4.23		climatic sequence;		
4.23.2	2(Ba)	dry heat	UCT;16h	
4.23.3	30(Db)	damp heat, cyclic	55 $^{\circ}$ C;24h; \geq 90%RH 1cycle	
4.23.4	1(Aa)	cold	LCT;2h	
4.23.5	13(M)	low air pressure	8.5kPa 25 \pm 10 $^{\circ}$ C 2h	
4.23.6	30(Db)	damp heat, cyclic	55 $^{\circ}$ C;24h; \geq 90%RH 5 cycles	\pm 0.25%R+0.05 Ω
			LCT=-55 $^{\circ}$ C UCT=125 $^{\circ}$ C	
4.24	3(Ca)	damp heat, steady state	40 \pm 2 $^{\circ}$ C;56days 93+2/-3%RH	\pm 0.25%R+0.05 Ω
4.25.1	—	endurance standard operation mode	U= $\sqrt{P70}$ *R \leq U _{max} ; 1.5h on;0.5h off; 70 $^{\circ}$ C 1000h	\pm 0.50%R+0.05 Ω
4.29	45(XA)	component solvent resistance	isopropy alcohol; +23 $^{\circ}$ C toothbrush method	marking legible no visible damage

Remark :unless otherwise specified,all values are tested at the following condition;
temperature:21 $^{\circ}$ C to 25 $^{\circ}$ C ;Relative humidity:45% to 60%

● 料号编号 ordering Information

Example:KNX18 S D C5 T 1R8

KNX18		S	D	C5	T	1R8
TYPE	POWER RATING	SIZE	TOLERANCE	TCR	PACKING	RESISTANCE
KNX	15S : 0.50W	S (small size)	J(±5%)	C5(±15ppm/°C)	T(taping)	1R8(Jtol.;3digits)
	16S : 1.00W		F(±1%)	C3(±25ppm/°C)	B(Bulk/box)	1R80(Over J tol.:4digits)
	17S : 2.00W		D(±0.5%)	C2(±50ppm/°C)		
	18S : 3.00W		C(±0.25%)	C1(±100ppm/°C)		
	19S : 5.00W		B(±0.10%) W(±0.05%) P(±0.025%)			