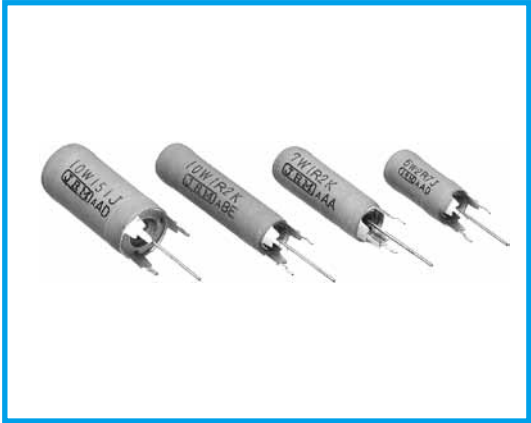


不燃性巻線固定抵抗器
Non Flammable Wire-Wound Fixed Resistor

KNX series

- プリント基板自立実装タイプ
- 省スペース実装タイプ
- RoHS対応品
- PCB direct-mounting type
- Space saving type
- RoHS Complied



■電氣的、機械的特性 Electrical and mechanical characteristics

特性 Characteristics	規格値 Standards	試験方法 Test methods
抵抗値と抵抗値許容差 Resistance and Resistance tolerance	公称抵抗値 Resistance nominal 1Ω ≤ ±5% (J) 1Ω > ±10% (K)	
抵抗温度特性 Temperature coefficient	20Ω ≤ ±260ppm/°C max. 20Ω > ±400ppm/°C max.	
定格負荷 Power rating load	△R/R ≤ ± (1%+0.05Ω) 表面温度上昇 (temperature) 350°C max.	
短時間過負荷 Short-time overload	アーク焼損等の異常なきこと no evidence of arc damage etc. △R/R ≤ ± (2%+0.05Ω)	定格電力×10倍 5秒間負荷 1000% rated power 5 seconds
絶縁抵抗 Insulation resistance	20MΩ min.	DC500V
耐電圧 Dielectric withstanding voltage	機械的損傷及び絶縁破壊なきこと no evidence of mechanical damage or insulation breakdown △R/R ≤ ± (0.1%+0.05Ω)	AC800V 1 minute
端子強度 Terminal strength	機械的損傷なきこと no evidence of mechanical damage	引張り(Pull) 44N 30±5 seconds
抵抗体強度 Resistor strength	機械的損傷なきこと no evidence of mechanical damage	98N 10 seconds
耐振性 Vibration	機械的損傷なきこと no evidence of mechanical damage △R/R ≤ ± (1%+0.05Ω)	取付け:基板実装状態 X, Y 各 2 hours each
半田耐熱 Soldering heat	機械的損傷、外観劣化なきこと no evidence of mechanical damage △R/R ≤ ± (1%+0.05Ω)	350°C 3 seconds
半田付け性 Solderability	75%以上新しい半田で覆われること 75% coverage min. with new solder	250°C 3 seconds

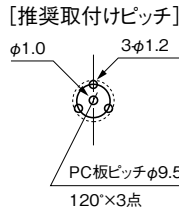
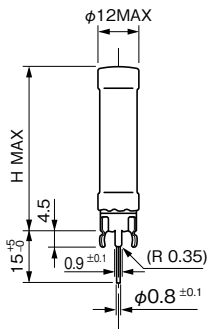
■耐候的特性 Environmental characteristics

特性 Characteristics	規格値 Standards	試験方法 Test methods
耐熱性 Heat resistance	標印、絶縁被覆に著しい損傷なきこと no deterioration of protective coatings or markings	350±5°C 2 hours
熱衝撃 Thermal shock	機械的損傷なきこと no evidence of mechanical damage △R/R ≤ ± (2%+0.05Ω)	定格負荷30分間 → -40°C 15分間 power rating load → -40°C 15 minutes
耐湿性(定常状態) Humidity (Steady state)	標印、絶縁被覆に異常なきこと no deterioration of protective coatings or markings △R/R ≤ ± (3%+0.05Ω)	成極DC100V 40°C 95%RH 500 hours
耐久性(耐湿負荷) Durability (Moisture resistance)	標印、絶縁被覆に異常なきこと no deterioration of protective coatings or markings △R/R ≤ ± (3%+0.05Ω)	10%負荷 rated power load 90 minutes ON 30 minutes OFF 40°C 95%RH 1000 hours
耐久性(定格負荷) Durability (Nominal load)	標印、絶縁被覆に異常なきこと no deterioration of protective coatings or markings △R/R ≤ ± (5%+0.05Ω)	100%負荷 rated power load 90 minutes ON 30 minutes OFF 70°C 1000 hours
難燃性(過負荷) Flame resistance (Over load)	燃焼しないこと no evidence of flaming or arcing	定格電力の1~15倍 100~1500% rated power load

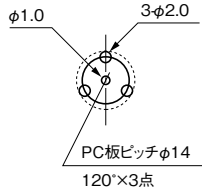
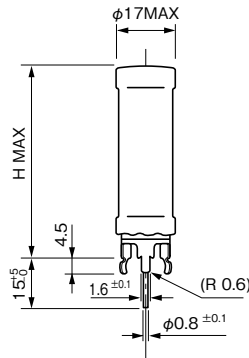
■規格 Standards

●形状・寸法 Configuration (mm)

KN12X series



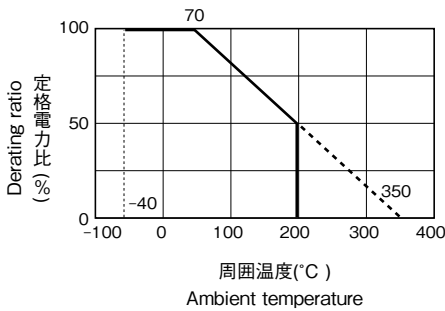
KN17X series



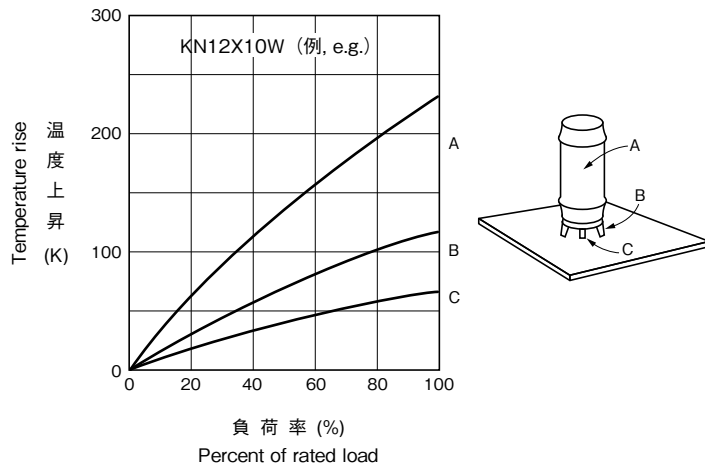
形状 Type	定格電力 (W) Power Rating	寸法 Dimensions (mm)		抵抗値範囲 (Ω) Resistance Range
		φ D	H	
KN12X	5W	5	12	0.33~560
	7W	7	12	0.68~1.2k
	10W	10	12	1.2~2.2k
KN17X	7W	7	17	0.68~1.2k
	10W	10	17	1.0~1.8k
	15W	15	17	1.5~2.7k
	20W	20	17	2.2~3.9k

注:KN17X7W,10WタイプはH寸法(高さ)に制約の有る場合に御使用下さい。
(KN12Xタイプ標準)
Note: Please use the following - KN17X7W&KN17X10W when the heights do not correspond with KN12X (Standard type).

●定格電力軽減曲線 Power Derating Curve



●表面温度上昇 Temperature Rise



■標準抵抗値 (Ω)

Standard resistance values JIS-E24 series

抵抗値許容差

Resistance tolerance

$R \geq 1\Omega \dots \pm 5\%$ (J)

$R < 1\Omega \dots \pm 10\%$ (K)

■受注生産品 Products by order

■品番コード Explanation of Part Number

KN12X 5W 150 J / RO

