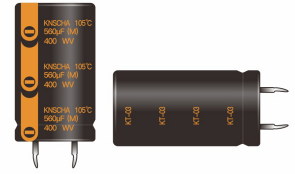


# KT-03 基板自立型 · 105°C 长寿命小型品



- Ripple current is applied to meet the conditions at 105 degrees 3000 hours lifetime  
施加纹波电流在105度条件下满足3000小时寿命
- High Ripple & Long Life, suited to Hit power supply, street lighting, drivers, inverters and Frequency converter.  
高纹波长寿命品, 适合大功率电源, 路灯照明, 驱动器, 逆变器, 变频器
- Non solvent-proof type 无溶剂型



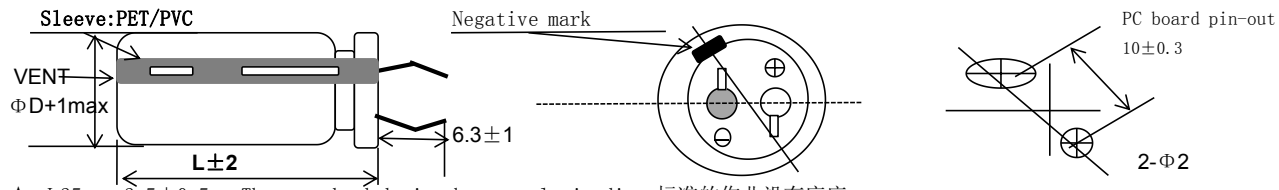
套管颜色: 黑体金字

## SPECIFICATIONS

技术参数

Item (项目)	Characteristics (特征)													
Operating Temperature Range (使用温度范围)	- 40 ~ +105°C													
Voltage Range (额定电压)	400V ~ 450 V.DC													
Nominal Cap. Range (容量范围)	220 ~ 820 μF													
Capacitance Tolerance (温度频率范围)	- 20% ~ + 20% (at 20°C, 120Hz)													
Leakage Current 漏电流	<table border="1"> <tr> <td>WV</td> <td colspan="2">400 V ~ 450 V</td> </tr> <tr> <td rowspan="2">L.C.</td> <td colspan="2">I = 0.02CV (μA) whichever is greater(after 5min)</td> </tr> <tr> <td colspan="2">施加额定电压5分钟测试</td> </tr> <tr> <td rowspan="2"></td> <td colspan="2">I = 0.03CV (μA) whichever is greater(after 2min)</td> </tr> <tr> <td colspan="2">施加额定电压2分钟测试</td> </tr> </table>	WV	400 V ~ 450 V		L.C.	I = 0.02CV (μA) whichever is greater(after 5min)		施加额定电压5分钟测试			I = 0.03CV (μA) whichever is greater(after 2min)		施加额定电压2分钟测试	
	WV	400 V ~ 450 V												
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where, I: Max Leakage Current (μA); C: Nominal Capacitance (μF), V: Rated Voltage(V) (at 20°C) 注解: I: 漏电流μA C: 容量(μF), V: 额定电压(V) (在 20°C)														
Dissipation Factor (tanδ) (at 120Hz, +20°C) (损失角正切)	<table border="1"> <tr> <td>WV</td> <td>400</td> <td>450</td> </tr> <tr> <td>tanδ</td> <td>0.20</td> <td>0.24</td> </tr> </table>	WV	400	450	tanδ	0.20	0.24							
	WV	400	450											
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Add 0.02 per 1,000 μF for more than 1,000μF items. 容量超过1000 μF; 每超过1000 μF, 损失角增加0.02														
Low Temp. Impedance Stability at 120Hz (温度特性)	<table border="1"> <tr> <td>W. V.</td> <td>400</td> <td>450</td> </tr> <tr> <td>Z-25°C/Z+20°C</td> <td>6</td> <td>8</td> </tr> <tr> <td>Z-40°C/Z+20°C</td> <td>10</td> <td>12</td> </tr> </table>	W. V.	400	450	Z-25°C/Z+20°C	6	8	Z-40°C/Z+20°C	10	12				
	W. V.	400	450											
Z-25°C/Z+20°C	6	8												
Z-40°C/Z+20°C	10	12												
High Temp. Load Test (高温负荷特性) After 3000 hours, application of DC rated working voltage at + 105°C, the capacitor shall meet the following limits. 105°C施加额定电压3000小时后满足下列条件 Capacitance change $\leq \pm 20\%$ of the initial measured value 容量在 $\pm 20\%$ 范围内 Tan $\delta \leq 200\%$ of the initial specified value 损失角在初始规定值200% DC leakage current $\leq$ the initial specified value 漏电流小于或等于规格值														
High Temp. Non-Load Test (高温无负荷特性)	After storage for 1000 hours at 105°C with no voltage applied, voltage treatment of JIS-C-5102 article 4-4 is to be given and then measurement shall be made, at which time requirements specified in the table "High Temperature Loading" can be met. 在105°C的条件下不加电压放置1000个小时, 按照JIS-C-5102中4-4的标准进行处理, 特性满足高温负荷特性													

## DIMENSIONS (MM)



★ Φ35mm: 3.5±0.5mm The standard design has no plastic disc 标准的作业没有底座

## MULTIPLIER FOR RIPPLE CURRENT 纹波电流修正系数

(1) Frequency coefficient 频率系数

频率系数

Freq.(Hz)	60(50)	120	1K	10K	100K
Cap(μF)					
220~ 470	0.75	1.00	1.02	1.03	1.04
560 ~ 820	0.80	1.00	1.10	1.12	1.13

(2) Temperature coefficient 温度系数

Ambient Temperature(°C)	40	60	70	85	105
Coefficient	1.30	1.40	1.50	1.60	1.00

编码规格: 1-2位为ST: 生产工厂代码; 3-4位为KT: 系列 KT-03; 5-6位为: 国际通用电压代码; 7-9位为容量编码, 如221表示220uF; 10位为: M,代表容量误差 $\pm 20\%$ , 11-14位为: 尺寸, 如2525代表DXL=25\*25MM

**KT-03** 基板自立型·105℃长寿命小型品



■STANDARD SIZE

WV (VDC)	Cap (μ F)/120Hz	Case size	Ripple (Arms 105℃120Hz)	WV (VDC)	Cap (μ F)/120Hz	Case size	Ripple (Arms 105℃120Hz)
额定电压	静电容量	尺寸DxL	纹波电流	额定电压	静电容量	尺寸DxL	纹波电流
400V 2G	220	25*25	1.30	450V 2W	220	25*30	1.45
	220	30*22	1.35		220	30*25	1.48
	220	30*25	1.45		220	35*22	1.50
	270	25*30	1.75		270	30*25	1.65
	270	30*25	1.85		270	35*22	1.70
	270	35*22	1.88		270	35*30	1.73
	330	25*30	2.00		330	35*30	1.90
	330	30*25	2.15		330	30*30	1.95
	330	30*30	2.20		330	35*25	2.00
	390	30*30	2.30		330	35*30	2.15
	390	35*22	2.35		470	35*30	2.60
	470	35*30	2.50		470	35*35	2.70
	470	35*35	2.55		560	35*35	2.95
	560	35*30	2.80		680	35*40	3.05
	680	35*35	2.95		820	35*45	3.20
	820	35*40	3.05				

105℃ 120Hz 时的额定纹波电流 (mArms)

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