

BTA series

- Low ESR / Low ESL 低 ESR / 低 ESL
- Load life of 1000 hours at 125°C 直流负荷寿命 125°C-1000 小时
- RoHS 2.0 Compliant 符合 RoHS2.0 规范
- MSL 3 湿敏 3 级

**Specifications 系列参数**

Items 项目	Characteristics 特性		
Operating Temp. Range 工作温度范围	-55°C ~ +125°C		
Capacitance Range 容量范围	47 ~ 560μF		
Capacitance Tolerance 容量偏差	M : ±20%		
Rated Voltage Range 额定电压范围	2V ~ 10V DC		
Dissipation Factor 损耗角正切	≤0.06(120Hz,20°C)		
Leakage Current 漏电流	I ≤0.1CV(μA) (after 2 minutes) (2V.DC ~ 6.3V.DC); I ≤0.3CV(μA) (after 2 minutes) (>6.3V.DC)		
Surge Voltage 浪涌电压	Rated working voltage × 1.25 (15°C~35°C) 额定电压的 1.25 倍 (恒定温度 15°C~35°C)		
Endurance 125°C · 1000h · at category voltage 寿命: 125°C 加载类别电压连续工作 1000 小时	Capacitance Change 容量变化	Within ±20% of the initial value 初始值±20%以内	
	Dissipation Factor 损耗角正切	≤ 2 times of the initial limit 不超初始规格值的 200%	
	Leakage current 漏电流	≤ 3 times of the initial limit 不超初始规格值的 300%	
Humidity Resistance 60°C · 90 ~ 95%RH · 500h · at rated voltage 耐湿性 60°C · 90 ~ 95%RH 加载额定电压连续工作 500 小时	Capacitance Change 容量变化	2.0V~2.5V	4V, 10V
		+70%, -20%	+60%, -20%
	Dissipation Factor 损耗角正切	≤ 2 times of the initial limit 不超初始规格值的 200%	
	Leakage Current 漏电流	Within the initial limit 不超初始规格值 (2.0 V to 6.3 V) ≤ 3 times of the initial limit 不超初始规格值的 300% (10 V)	

Dimensions 尺寸(Unit单位:mm)

Size Code 尺寸代码	L	W	H	W1/W2	L1/L2
V	7.3±0.3	4.3±0.3	1.9±0.3	2.4±0.3	1.3/3.4±0.3

Marking 标识

Polarity Bar(Positve) 极性带(阳极)	470	Voltage(V) 额定电压
Capacitance (μF) 静电容量	2	
LOGO 公司标识	235	Date Code 制造周期
PolyCap		
Date Code 制造周期说明:		
"2": Last digit of Christian year 公历年最后一位		
"35": week 周代码		

Characteristics List 规格特性表

W.V. 工作电压 (V)	Category Voltage 类别电压 (V)	Capacitance 容量 (μF)	Size 尺寸(mm)			ESR 等效串联电阻 (100kHz / +20°C) (mΩ)	Rated Ripple Current 额定纹波电流 (100 kHz / +45 °C) (mA,r.m.s)	Part Number* 物料编码*
			L	W	H			
2	1.6	180	7.3	4.3	1.9	15	5100	BTA181M002V00TB0015
			7.3	4.3	1.9	12	5600	BTA181M002V00TB0012
			7.3	4.3	1.9	9	6300	BTA181M002V00TB0009
		220	7.3	4.3	1.9	15	5100	BTA221M002V00TB0015
			7.3	4.3	1.9	12	5600	BTA221M002V00TB0012
			7.3	4.3	1.9	9	6300	BTA221M002V00TB0009
		270	7.3	4.3	1.9	15	5100	BTA271M002V00TB0015
			7.3	4.3	1.9	12	5600	BTA271M002V00TB0012
			7.3	4.3	1.9	9	6300	BTA271M002V00TB0009
			7.3	4.3	1.9	6	7500	BTA271M002V00TB0006
			7.3	4.3	1.9	4.5	8500	BTA271M002V00TB04R5
		330	7.3	4.3	1.9	15	5100	BTA331M002V00TB0015
			7.3	4.3	1.9	12	5600	BTA331M002V00TB0012
			7.3	4.3	1.9	9	6300	BTA331M002V00TB0009
			7.3	4.3	1.9	6	7500	BTA331M002V00TB0006
			7.3	4.3	1.9	4.5	8500	BTA331M002V00TB04R5
			7.3	4.3	1.9	3	10200	BTA331M002V00TB0003
		390	7.3	4.3	1.9	15	5100	BTA391M002V00TB0015
			7.3	4.3	1.9	12	5600	BTA391M002V00TB0012
			7.3	4.3	1.9	9	6300	BTA391M002V00TB0009
			7.3	4.3	1.9	6	7500	BTA391M002V00TB0006
			7.3	4.3	1.9	4.5	8500	BTA391M002V00TB04R5
			7.3	4.3	1.9	3	10200	BTA391M002V00TB0003
		470	7.3	4.3	1.9	15	5100	BTA471M002V00TB0015
			7.3	4.3	1.9	12	5600	BTA471M002V00TB0012
			7.3	4.3	1.9	9	6300	BTA471M002V00TB0009
			7.3	4.3	1.9	6	7500	BTA471M002V00TB0006
			7.3	4.3	1.9	4.5	8500	BTA471M002V00TB04R5
			7.3	4.3	1.9	3	10200	BTA471M002V00TB0003
		560	7.3	4.3	1.9	15	5100	BTA561M002V00TB0015
			7.3	4.3	1.9	12	5600	BTA561M002V00TB0012
			7.3	4.3	1.9	9	6300	BTA561M002V00TB0009
			7.3	4.3	1.9	6	7500	BTA561M002V00TB0006
			7.3	4.3	1.9	4.5	8500	BTA561M002V00TB04R5
			7.3	4.3	1.9	3	10200	BTA561M002V00TB0003
2.5	2.0	150	7.3	4.3	1.9	9	6300	BTA151M2R5V00TB0009
			7.3	4.3	1.9	9	6300	BTA181M2R5V00TB0009
			7.3	4.3	1.9	15	5100	BTA221M2R5V00TB0015
		180	7.3	4.3	1.9	9	6300	BTA221M2R5V00TB0009
			7.3	4.3	1.9	7	7000	BTA221M2R5V00TB0007
			7.3	4.3	1.9	15	5100	BTA331M2R5V00TB0015
		220	7.3	4.3	1.9	9	6300	BTA331M2R5V00TB0009
			7.3	4.3	1.9	6	7500	BTA331M2R5V00TB0006
			7.3	4.3	1.9	4.5	8500	BTA331M2R5V00TB04R5
			7.3	4.3	1.9	3	10200	BTA331M2R5V00TB0003
			7.3	4.3	1.9	15	5100	BTA391M2R5V00TB0015
		330	7.3	4.3	1.9	9	6300	BTA391M2R5V00TB0009
			7.3	4.3	1.9	6	7500	BTA391M2R5V00TB0006
			7.3	4.3	1.9	4.5	8500	BTA391M2R5V00TB04R5
		390	7.3	4.3	1.9	3	10200	BTA391M2R5V00TB0003

W.V. 工作电压 (V)	Category Voltage 类别电压 (V)	Capacitance 容量 (μF)	Size 尺寸(mm)			ESR 等效串联电阻 (100kHz / +20°C) (mΩ)	Rated Ripple Current 额定纹波电流 (100 kHz / +45 °C) (mA.r.m.s)	Part Number* 物料编码*
			L	W	H			
2.5	2.0	390	7.3	4.3	1.9	4.5	8500	BTA391M2R5V00TB04R5
			7.3	4.3	1.9	3	10200	BTA391M2R5V00TB0003
		470	7.3	4.3	1.9	15	5100	BTA471M2R5V00TB0015
			7.3	4.3	1.9	9	6300	BTA471M2R5V00TB0009
			7.3	4.3	1.9	6	7500	BTA471M2R5V00TB0006
			7.3	4.3	1.9	4.5	8500	BTA471M2R5V00TB04R5
			7.3	4.3	1.9	3	10200	BTA471M2R5V00TB0003
			82	7.3	4.3	1.9	9	BTA820M004V00TB0009
4	3.2	100	7.3	4.3	1.9	9	6300	BTA101M004V00TB0009
		150	7.3	4.3	1.9	15	5100	BTA151M004V00TB0015
			7.3	4.3	1.9	9	6300	BTA151M004V00TB0009
			7.3	4.3	1.9	7	7000	BTA151M004V00TB0007
		180	7.3	4.3	1.9	15	7000	BTA181M004V00TB0015
			7.3	4.3	1.9	12	5100	BTA181M004V00TB0012
			7.3	4.3	1.9	9	5600	BTA181M004V00TB0009
		220	7.3	4.3	1.9	15	6300	BTA221M004V00TB0015
			7.3	4.3	1.9	12	5100	BTA221M004V00TB0012
			7.3	4.3	1.9	9	5600	BTA221M004V00TB0009
		270	7.3	4.3	1.9	15	6300	BTA271M004V00TB0015
			7.3	4.3	1.9	9	5100	BTA271M004V00TB0009
			7.3	4.3	1.9	15	6300	BTA331M004V00TB0015
		330	7.3	4.3	1.9	9	5100	BTA331M004V00TB0009
			7.3	4.3	1.9	6	7500	BTA331M004V00TB0006
			100	7.3	4.3	1.9	15	5100
6.3	5.0	120	7.3	4.3	1.9	15	5100	BTA121M6R3V00TB0015
			7.3	4.3	1.9	9	6300	BTA121M6R3V00TB0009
			7.3	4.3	1.9	15	5100	BTA151M6R3V00TB0015
		150	7.3	4.3	1.9	12	5600	BTA151M6R3V00TB0012
			7.3	4.3	1.9	9	6300	BTA151M6R3V00TB0009
		180	7.3	4.3	1.9	15	5100	BTA181M6R3V00TB0015
			7.3	4.3	1.9	9	6300	BTA181M6R3V00TB0009
		220	7.3	4.3	1.9	15	5100	BTA221M6R3V00TB0015
			7.3	4.3	1.9	9	6300	BTA221M6R3V00TB0009
10	8.0	47	7.3	4.3	1.9	28	3800	BTA470M010V00TB0028
			7.3	4.3	1.9	18	4700	BTA470M010V00TB0018
		68	7.3	4.3	1.9	28	4000	BTA680M010V00TB0028
			7.3	4.3	1.9	18	4700	BTA680M010V00TB0018
			7.3	4.3	1.9	15	5100	BTA680M010V00TB0015
		100	7.3	4.3	1.9	25	4000	BTA101M010V00TB0025
			7.3	4.3	1.9	15	5100	BTA101M010V00TB0015
			7.3	4.3	1.9	9	6300	BTA101M010V00TB0009
		120	7.3	4.3	1.9	25	4000	BTA121M010V00TB0025
			7.3	4.3	1.9	15	5100	BTA121M010V00TB0015
			7.3	4.3	1.9	9	6300	BTA121M010V00TB0009
		150	7.3	4.3	1.9	25	4000	BTA151M010V00TB0025
			7.3	4.3	1.9	15	5100	BTA151M010V00TB0015
			7.3	4.3	1.9	9	6300	BTA151M010V00TB0009

* Default tin plated terminals and 13 inch reels in Part Numbers 物料编码中默认镀锡端子和13英寸卷盘

Temperature Compensation Coefficient for Ripple Current 纹波电流温度系数

Temperature 温度	T≤45°C	45°C<T≤85°C	85°C<T≤105°C	105°C<T≤125°C
Coefficient 系数 (2.0V ~ 6.3V)	1.00	0.70	0.25	0.25
Coefficient 系数 (10V)	1.00	0.80	0.50	0.25