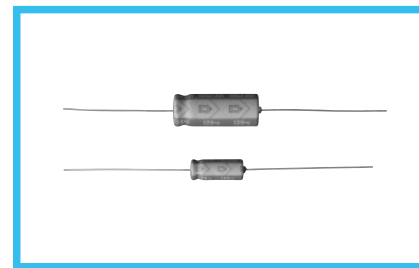


BE

High Temperature Range, For -40 to +125°C Use

(02type) series

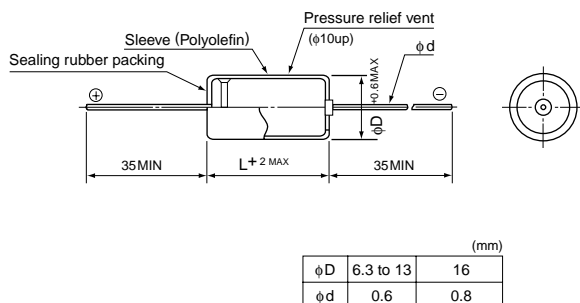
- Highly dependable reliability withstanding load life of 2000 hours at 125°C.
- Suited for automobile electronics, space equipment and communication appliances, where heavy duty services and indispensable.
- Compliant to the RoHS directive (2011/65/EU).



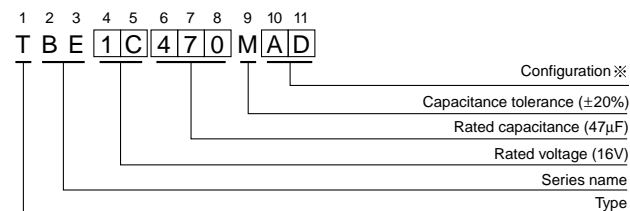
## Specifications

Item	Performance Characteristics						
Category Temperature Range	-40 to +125°C						
Rated Voltage Range	10 to 50V						
Rated Capacitance Range	0.47 to 470μF						
Capacitance Tolerance	±20% at 120Hz, 20°C						
Leakage Current	After 5 minute's application of rated voltage, leakage current is not more than 0.002CV or 2 (μA), whichever is greater.						
Tangent of loss angle (tan δ)	Measurement frequency : 120Hz at 20°C						
	Rated voltage (V)	10	16	25	35	50	
	tan δ (MAX.)	0.15	0.12	0.10	0.10	0.08	
Stability at Low Temperature	Measurement frequency : 120Hz						
	Rated voltage (V)		10	16	25	35	50
	Impedance ratio ZT / Z20 (MAX.)	Z-25°C / Z+20°C	3	2	2	2	2
Z-40°C / Z+20°C		6	4	4	4	4	
Endurance	The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 2000 hours at 125°C.				Capacitance change		Within ±20% of the initial capacitance value
					tan δ		200% or less than the initial specified value
					Leakage current		Less than or equal to the initial specified value
Shelf Life	After storing the capacitors under no load at 125°C for 1000 hours and then performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20°C, they shall meet the specified values for the endurance characteristics listed above.						
Marking	Printed with white color letter on blue sleeve.						

## Axial Lead Type



## Type numbering system (Example : 16V 47μF)



※ Configuration

φ D	Pb-free leadwire Pb-free Polyolefin sleeve
6.3 · 8	AD
10 to 16	CD

## Dimensions

V		10	16	25	35	50
Cap.(μF)	Code	1A	1C	1E	1V	1H
0.47	R47					6.3 × 16
1	010					6.3 × 16
2.2	2R2					6.3 × 16
3.3	3R3					6.3 × 16
4.7	4R7					6.3 × 16
10	100				6.3 × 16	6.3 × 16
22	220			6.3 × 16	8 × 16	8 × 20
33	330	6.3 × 16	8 × 16	8 × 20	8 × 20	10 × 21
47	470	6.3 × 16	8 × 16	8 × 20	10 × 21	10 × 26
100	101	8 × 20	10 × 21	10 × 21	10 × 26	13 × 26
220	221	10 × 21	10 × 26	13 × 26	13 × 31.5	16 × 31.5
330	331	13 × 26	13 × 26	13 × 31.5	16 × 31.5	
470	471	13 × 31.5	13 × 31.5	16 × 31.5		

Please refer to page 22 about the formed or taped product spec.  
Please refer to page 4 for the minimum order quantity.