



## Specifications

Items	Specifications	
Size code	B15	B2
Category temperature range	-55 to +105 °C	
Rated voltage range	16 to 35 V.DC	
Rated capacitance range	2.7 μF	3.9 to 33 μF
Capacitance tolerance	±20 % (120 Hz/+20 °C)	
Leakage current	Please see the attached characteristics list	
Dissipation factor(tan δ)	Please see the attached characteristics list	
Surge voltage	Rated voltage x1.15	
Endurance	105 °C, 2,000 h(16TQC33MYFB: 1,000 h), rated voltage applied	
	ΔC/C	Within±20 % of the initial value
	DF	≤1.5 times of the initial limit
	LC	Within the initial limit
Damp heat (Steady State)	60 °C, 90 to 95 %RH, 500 h, No-applied voltage	
	ΔC/C	Within+40 %, -20 % of the initial value
	DF	≤1.5 times of the initial limit
	LC	≤3 times of the initial limit

## Marking and dimensions

(unit : mm)

Size code	L ±0.2	W ±0.2	H ±0.1	S ±0.2	W1 ±0.1
B15	3.5	2.8	1.4	0.8	2.2
B2	3.5	2.8	1.9	0.8	2.2

  

R. Voltage (V.DC)	16	20	25	35
Code	C	D	E	V

  

R. Cap. (μF)	2.7	3.9	5.6	8.2	10	15	22	33
Code	L6	Q6	U6	Y6	A7	E7	J7	N7

## Characteristics list

Series	Rated voltage (V.DC)	Rated temp. (°C)	Category voltage (V.DC)	Category temp. (°C)	Rated capacitance (μF)	Case size (mm)			Size code	Specifications				Standard	
						L	W	H		Maximum allowable ripple current (mA <sub>rms</sub> ) 100 kHz ※1	ESR ※2 (mΩ max.)	tan δ ※3	LC ※4 (μA)	Part number	Min. Packaging Qty (pcs)
TQC	16	105	16.0	105	10	3.5	2.8	1.9	B2	800	100	0.10	48.0	16TQC10M	2000
		105	16.0	105	15	3.5	2.8	1.9	B2	1000	90	0.10	72.0	16TQC15M	2000
		105	16.0	105	33	3.5	2.8	1.9	B2	1000	90	0.10	158.4	16TQC33MYFB	2000
	20	105	20.0	105	8.2	3.5	2.8	1.9	B2	800	100	0.10	49.2	20TQC8R2M	2000
		105	20.0	105	22	3.5	2.8	1.9	B2	1000	90	0.10	132.0	20TQC22MYFB	2000
	25	105	25.0	105	5.6	3.5	2.8	1.9	B2	800	100	0.10	42.0	25TQC5R6M	2000
105		25.0	105	15	3.5	2.8	1.9	B2	900	100	0.10	112.5	25TQC15MYFB	2000	
35	105	35.0	105	2.7	3.5	2.8	1.4	B15	800	300	0.10	47.3	35TQC2R7MYF	2000	
	105	35.0	105	3.9	3.5	2.8	1.9	B2	500	400	0.10	40.9	35TQC3R9MYF	2000	

※1: Ripple current (100 kHz/ +105 °C ), ※2: ESR (100 kHz/+20 °C) ※3: tan δ (120 Hz/+20 °C) ※4: After 5 minutes

◆Please refer to each page in this catalog for "Reflow conditions" and "Taping specifications".

※: Small order quantity (500 pcs/reel) is available with TQC series. Please contact our sales representative if you prefer it.



## Specifications

Items	Specifications			
Size code	D12	D15	D2	D3L
Category temperature range	-55 to +105 °C			
Rated voltage range	16 to 25 V.DC			
Rated capacitance range	33 μF	22 to 47 μF	10 to 100 μF	68 to 150 μF
Capacitance tolerance	±20 % (120 Hz/+20 °C)			
Leakage current	Please see the attached characteristics list			
Dissipation factor(tan δ)	Please see the attached characteristics list			
Surge voltage	Rated voltage x1.15			
Endurance	105 °C, 2,000 h, rated voltage applied			
	ΔC/C	Within±20 % of the initial value		
	DF	≤1.5 times of the initial limit		
	LC	Within the initial limit		
Damp heat (Steady State)	60 °C, 90 to 95 %RH, 500 h, No-applied voltage			
	ΔC/C	Within+40 %, -20 % of the initial value		
	DF	≤1.5 times of the initial limit		
	LC	≤3 times of the initial limit		

## Marking and dimensions

Size code	L ±0.2※1	W ±0.2	H ±0.1※2	S ±0.2	W1 ±0.1
D12	7.3	4.3	1.15	1.3	2.4
D15	7.3	4.3	1.4	1.3	2.4
D2	7.3	4.3	1.9	1.3	2.4
D3L	7.3	4.3	2.8	1.3	2.4

※1 D3L size (±0.3) ※2 D12 size (±0.05), D3L size (±0.2)

R. Voltage (V.DC)	16	20	25	35
Code	C	D	1E	V

## Characteristics list

Series	Rated voltage (V.DC)	Rated temp. (°C)	Category voltage (V.DC)	Category temp. (°C)	Rated capacitance (μF)	Case size (mm)			Size code	Specifications				Standard	
						L	W	H		Maximum allowable ripple current (mA rms) 100 kHz ※1	ESR ※2 (mΩ max.)	tan δ ※3	LC ※4 (μA)	Part number	Min. Packaging Qty (pcs)
TQC	16	105	16.0	105	33	7.3	4.3	1.15	D12	1800	40	0.10	52.8	16TQC33MYFS	4500
						7.3	4.3	1.9	D2	1400	70	0.10	52.8	16TQC33MYFD	3000
						7.3	4.3	1.4	D15	1500	55	0.10	75.2	16TQC47MYFT	3000
		47	7.3	4.3	1.9	D2	1800	40	0.10	75.2	16TQC47MW	3000			
			7.3	4.3	1.9		1450	55	0.10	75.2	16TQC47MYFD	3000			
			7.3	4.3	1.9		D2	1500	50	0.10	108.8	16TQC68MYF	3000		
		68	7.3	4.3	1.9	D2	1800	50	0.10	160.0	16TQC100MYF	3000			
			7.3	4.3	2.8	D3L	1800	50	0.10	240.0	16TQC150MYF	2500			
			7.3	4.3	1.9	D2	1300	80	0.10	44.0	20TQC22MYFD	3000			
	7.3		4.3	1.9	D2	1400	60	0.10	66.0	20TQC33MYFD	3000				
	7.3		4.3	1.9	D2	1450	55	0.10	94.0	20TQC47MYF	3000				
	7.3		4.3	1.4	D15	1500	55	0.10	94.0	20TQC47MYFT	3000				
	20	105	20.0	105	22	7.3	4.3	1.9	D2	1700	55	0.10	200.0	20TQC100MYF	2500
						7.3	4.3	1.9	D2	1500	45	0.10	38.0	25TQC15MV	3000
						7.3	4.3	1.9		1000	90	0.10	38.0	25TQC15MYFD	3000
		7.3	4.3	1.9	1500	45	0.10	55.0		25TQC22MV	3000				
		22	7.3	4.3	1.9	D2	1400	60	0.10	55.0	25TQC22MYFD	3000			
			7.3	4.3	1.4		D15	1400	70	0.10	55.0	25TQC22MYFT	3000		
7.3			4.3	1.9	D2		1400	60	0.10	82.5	25TQC33MYF	3000			
33		7.3	4.3	1.9	D2	1400	70	0.10	170.0	25TQC68MYF	2500				
		7.3	4.3	1.9	D2	1000	120	0.10	35.0	35TQC10M	3000				
	7.4	4.3	1.9	1000		120	0.10	35.0	35TQC10MYF	3000					
7.4	4.3	1.9	D2	900		150	0.10	52.5	35TQC15MYF	3000					

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