

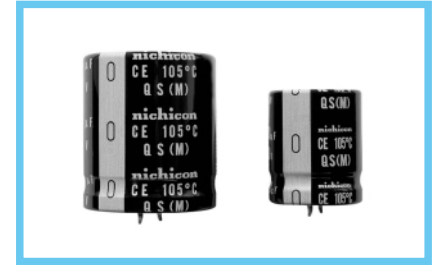
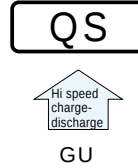
QS

Snap-in Terminal type, wide Temperature range,
High speed charge-discharge.
series



Smaller

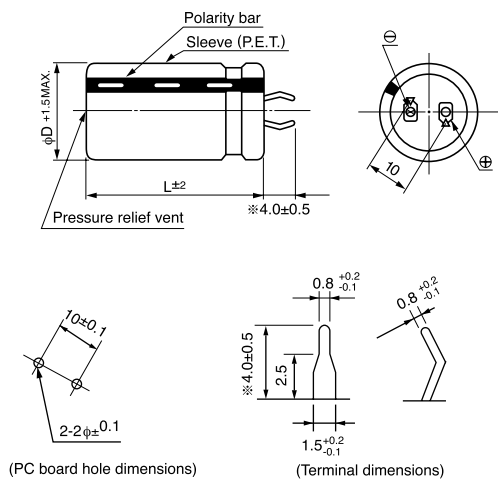
- Suited for high frequency regenerative voltage for AC servomotor, general inverter.
- Suited for equipment used at voltage fluctuating area.
- Suited for rectifier circuit of voltage doubler
- Adapted to the RoHS directive (2002/95/EC).



Specifications

Item	Performance Characteristics			
Category Temperature Range	- 25 ~ +105°C			
Rated Voltage Range	350 ~ 450V			
Rated Capacitance Range	82 ~ 820μF			
Capacitance Tolerance	± 20% at 120Hz, 20°C			
Leakage Current	$I \leq 3\sqrt{C}$ (μA) (After 5 minutes' application of rated voltage [C : Rated Capacitance(μF), V : Voltage (V)])			
tan δ	(Measurement frequency:120Hz, Temperature:20°C)			
	Rated voltage (V)	350	400	420
	tan δ (MAX.)	0.15	0.15	0.15
Stability at Low Temperature	Rated voltage (V)	350 ~ 450		
	Impedance ratio ZT/Z20(MAX.)	Z ~ 25°C / Z+20°C		
		8		
Endurance of charge-discharge behavior	After an application of charge-discharge voltage for 50million times (charge-discharge voltage difference(ΔV)=rated voltage × 0.35, cycle 6Hz)capacitors shall meet the characteristics requirement listed at right			Capacitance change
				tan δ
				Leakage current
				Appearance
Endurance	After 3000 hours application of rated voltage at 105°C, capacitance meet the characteristic requirements listed at right.			Capacitance change
				tan δ
				Leakage current
Shelf Life	After storing the capacitors under no load at 105°C for 1000 hours, and after performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20°C, they will meet the specified value for endurance characteristics listed above.			
Marking	Printed with white color letter on black sleeve.			

Drawing



(PC board hole dimensions)

(Terminal dimensions)

Type numbering system (Example : 400V 180μF)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	
L	Q	S	2	G	1	8	1	M	E	L	A	3	0	
			Case length code		Case dia. code		Configuration		Capacitance tolerance (±20%)		Rated Capacitance (180μF)		Rated voltage (400V)	

■ Dimensions

350V (2V)					
Cap. (μF)	Size φD × L(mm)	Rated ripple (mA)	tan δ	Leakage Current (mA)	Code
120	22 × 25	750	0.15	0.61	LQS2V121MELZ25
150	22 × 30	820	0.15	0.68	LQS2V151MELZ30
180	22 × 30	900	0.15	0.75	LQS2V181MELZ30
	25 × 25	900	0.15	0.75	LQS2V181MELA25
220	22 × 35	1000	0.15	0.83	LQS2V221MELZ35
	25 × 30	1000	0.15	0.83	LQS2V221MELA30
270	22 × 40	1100	0.15	0.92	LQS2V271MELZ40
	25 × 35	1100	0.15	0.92	LQS2V271MELA35
	30 × 25	1100	0.15	0.92	LQS2V271MELB25
330	22 × 45	1200	0.15	1.01	LQS2V331MELZ45
	25 × 40	1200	0.15	1.01	LQS2V331MELA40
	30 × 30	1200	0.15	1.01	LQS2V331MELB30
390	25 × 45	1300	0.15	1.10	LQS2V391MELA45
	30 × 35	1300	0.15	1.10	LQS2V391MELB35
470	25 × 50	1400	0.15	1.21	LQS2V471MELA50
	30 × 40	1400	0.15	1.21	LQS2V471MELB40
	35 × 30	1400	0.15	1.21	LQS2V471MELC30
560	30 × 45	1500	0.15	1.32	LQS2V561MELB45
	35 × 35	1500	0.15	1.32	LQS2V561MELC35
680	30 × 50	1700	0.15	1.46	LQS2V681MELB50
	35 × 40	1700	0.15	1.46	LQS2V681MELC40
820	35 × 45	1900	0.15	1.60	LQS2V821MELC45

400V (2G)					
Cap. (μF)	Size φD × L(mm)	Rated ripple (mA)	tan δ	Leakage Current (mA)	Code
100	22 × 25	680	0.15	0.60	LQS2G101MELZ25
120	22 × 30	730	0.15	0.65	LQS2G121MELZ30
150	22 × 35	850	0.15	0.73	LQS2G151MELZ35
180	22 × 35	950	0.15	0.80	LQS2G181MELZ35
	25 × 30	950	0.15	0.80	LQS2G181MELA30
	30 × 25	950	0.15	0.80	LQS2G181MELB25
220	22 × 45	1100	0.15	0.88	LQS2G221MELZ45
	25 × 35	1100	0.15	0.88	LQS2G221MELA35
	30 × 25	1100	0.15	0.88	LQS2G221MELB25
270	22 × 50	1220	0.15	0.98	LQS2G271MELZ50
	25 × 40	1220	0.15	0.98	LQS2G271MELA40
	30 × 30	1220	0.15	0.98	LQS2G271MELB30
	35 × 25	1220	0.15	0.98	LQS2G271MELC25
330	25 × 45	1440	0.15	1.08	LQS2G331MELA45
	30 × 35	1440	0.15	1.08	LQS2G331MELB35
390	25 × 50	1550	0.15	1.18	LQS2G391MELA50
	30 × 40	1550	0.15	1.18	LQS2G391MELB40
	35 × 30	1550	0.15	1.18	LQS2G391MELC30
470	30 × 45	1680	0.15	1.30	LQS2G471MELB45
	35 × 35	1680	0.15	1.30	LQS2G471MELC35
560	30 × 50	1900	0.15	1.41	LQS2G561MELB50
	35 × 40	1900	0.15	1.41	LQS2G561MELC40
680	35 × 45	2120	0.15	1.56	LQS2G681MELC45

420V (W6)					
Cap. (μF)	Size φD × L(mm)	Rated ripple (mA)	tan δ	Leakage Current (mA)	Code
100	22 × 25	660	0.15	0.61	LQSW6101MELZ25
120	22 × 30	810	0.15	0.67	LQSW6121MELZ30
	25 × 25	810	0.15	0.67	LQSW6121MELA25
150	22 × 35	840	0.15	0.75	LQSW6151MELZ35
	25 × 30	840	0.15	0.75	LQSW6151MELA30
180	22 × 40	910	0.15	0.82	LQSW6181MELZ40
	25 × 30	910	0.15	0.82	LQSW6181MELA30
	30 × 25	910	0.15	0.82	LQSW6181MELB25
220	22 × 45	1050	0.15	0.91	LQSW6221MELZ45
	25 × 35	1050	0.15	0.91	LQSW6221MELA35
	30 × 30	1050	0.15	0.91	LQSW6221MELB30
270	25 × 40	1250	0.15	1.01	LQSW6271MELA40
	30 × 30	1250	0.15	1.01	LQSW6271MELB30
	35 × 25	1250	0.15	1.01	LQSW6271MELC25
330	25 × 50	1420	0.15	1.11	LQSW6331MELA50
	30 × 35	1420	0.15	1.11	LQSW6331MELB35
	35 × 30	1420	0.15	1.11	LQSW6331MELC30
390	30 × 40	1610	0.15	1.21	LQSW6391MELB40
	35 × 35	1610	0.15	1.21	LQSW6391MELC35
470	30 × 45	1860	0.15	1.33	LQSW6471MELB45
	35 × 40	1860	0.15	1.33	LQSW6471MELC40
560	35 × 45	2100	0.15	1.45	LQSW6561MELC45
680	35 × 50	2200	0.15	1.60	LQSW6681MELC50

450V (2W)					
Cap. (μF)	Size φD × L(mm)	Rated ripple (mA)	tan δ	Leakage Current (mA)	Code
82	22 × 25	640	0.20	0.57	LQS2W820MELZ25
100	22 × 30	690	0.20	0.63	LQS2W101MELZ30
	25 × 25	690	0.20	0.63	LQS2W101MELA25
120	22 × 35	720	0.20	0.69	LQS2W121MELZ35
	25 × 30	720	0.20	0.69	LQS2W121MELA30
150	22 × 40	790	0.20	0.77	LQS2W151MELZ40
	25 × 30	790	0.20	0.77	LQS2W151MELA30
	30 × 25	790	0.20	0.77	LQS2W151MELB25
180	22 × 45	870	0.20	0.85	LQS2W181MELZ45
	25 × 35	870	0.20	0.85	LQS2W181MELA35
	30 × 30	870	0.20	0.85	LQS2W181MELB30
220	25 × 40	1050	0.20	0.94	LQS2W221MELA40
	30 × 30	1050	0.20	0.94	LQS2W221MELB30
	35 × 25	1050	0.20	0.94	LQS2W221MELC25
270	25 × 50	1230	0.20	1.04	LQS2W271MELA50
	30 × 35	1230	0.20	1.04	LQS2W271MELB35
	35 × 30	1230	0.20	1.04	LQS2W271MELC30
330	30 × 40	1380	0.20	1.15	LQS2W331MELB40
	35 × 35	1380	0.20	1.15	LQS2W331MELC35
390	30 × 50	1610	0.20	1.25	LQS2W391MELB50
	35 × 40	1610	0.20	1.25	LQS2W391MELC40
470	35 × 45	1780	0.20	1.37	LQS2W471MELC45
560	35 × 50	1990	0.20	1.50	LQS2W561MELC50

Rated Ripple (mA) at 105°C 120Hz

● Frequency coefficient of rated ripple current

Frequency (Hz)	50	60	120	300	1k	10k	50k~
Coefficient	0.77	0.82	1.00	1.16	1.30	1.41	1.43