

Stacked Metallized Plastic Film Capacitor

Discontinued

Type: **ECQV(L)/(M)**

Designed for high density insertion applications.

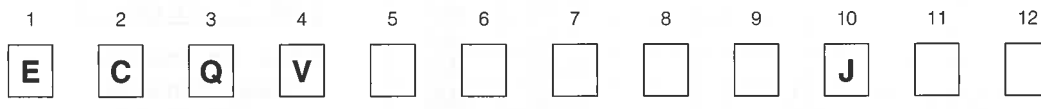
■ Features

- Small size and large capacitance
- Excellent electric characteristics in non-inductive construction
- Wide range for automatic insertion
- RoHS directive compliant

■ Recommended Applications

- General purpose
- Noise suppression for logic circuit

■ Explanation of Part Numbers



Product code Dielectric & construction Rated voltage Capacitance Cap. Tol. Suffix Suffix

1H	50 VDC
1J	63 VDC
1	100 VDC

L	50 VDC
M	63 VDC
	100 VDC

Suffix	Lead Form
Blank	Straight
W	Crimped lead
A	Cut lead
2	Straight taping (Ammo)
3	Crimped taping (Ammo)

Stacked Metallized Film

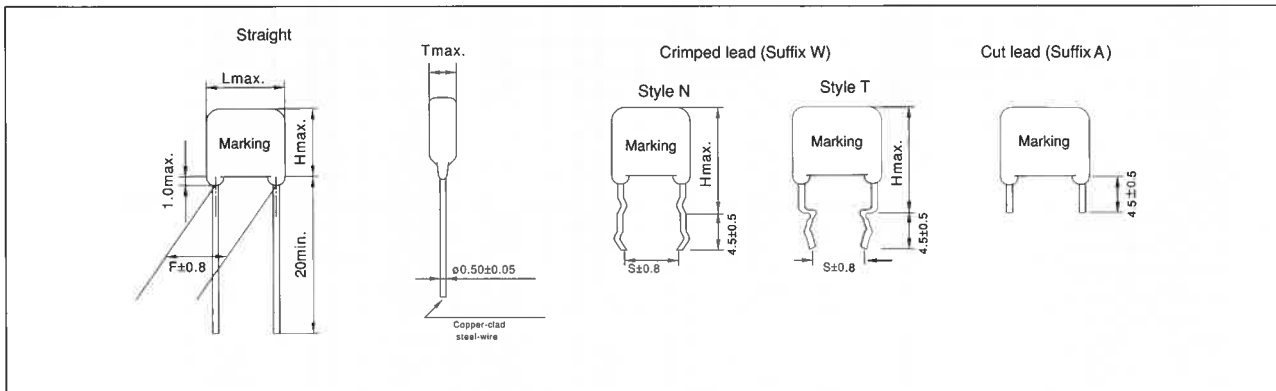


■ Specifications

Category temp. range (Including temperature-rise on unit surface)	-40 °C to +105 °C
Rated voltage	50 VDC, 63 VDC, 100 VDC (Derating of rated voltage by 2.5 %/°C at more than 85 °C)
Capacitance range	0.010 μF to 2.2 μF
Capacitance tolerance	±5 % (J)
Dissipation factor (tan δ)	tan δ ≤ 1.0 % (20 °C, 1 kHz)
Withstand voltage	Between terminals : Rated volt. (VDC) × 150 % 60 s
Insulation resistance (IR)	$C \leq 0.33 \mu\text{F} : IR \geq 3000 \text{ M}\Omega$ (20 °C, 50 VDC, 60 s ECQV1H, ECQV1J) $C > 0.33 \mu\text{F} : IR \geq 1000 \text{ M}\Omega \cdot \mu\text{F}$ (20 °C, 100 VDC, 60 s ECQV1)

* In case of applying voltage in alternating current (50 Hz or 60 Hz sine wave) to a capacitor with DC rated voltage, please refer to the page of "Permissible voltage (R.M.S) in alternating current corresponding to DC rated voltage".

■ Dimensions in mm (not to scale)



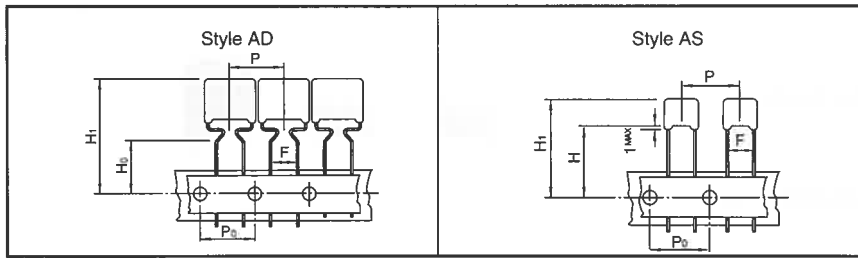
■ Packaging Specifications for Bulk Package

Packing quantity: 100 pcs./bag

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■ Taping Specifications for Automatic Insertion

● Taping style



* Refer to the page of taping specifications.

● Packaging Specifications

Type	Rated volt.	Cap. range (μF)	Taping style					Packing	suffix
			AD	AS	B	C	D		
ECQV (L)	50 VDC	0.010 to 2.2	○					Ammo	JL3
		0.010 to 1.0		○				Ammo	JL2
ECQV (M)	63 VDC	0.010 to 1.0	○					Ammo	JM3
		0.010 to 0.15		○				Ammo	JM2
	100 VDC	0.010 to 0.47	○					Ammo	JM3
		0.010 to 0.10		○				Ammo	JM2

● Lead Spacing

Style	Lead Spacing
AD	5.0 mm
AS	5.0 mm

* See the column "Rating, Dimensions & Quantity Box" for packing quantity.

■ Rating, Dimensions & Quantity/Ammo Box or Reel

● Type ECQV(L) Rated voltage : 50 VDC

Part No.	Cap. (μF)	Dimensions (mm)							Min. order Q'ty		
		L ^{max}	T ^{max}	H ^{max}		F		S	ød	Taping	Bulk
				Straight	Crimped lead	Straight	Crimped lead				
ECQV1H103JL()	0.010	7.3	3.2	5.0	9.0	5.0	5.0	5.0	500	2000	
ECQV1H123JL()	0.012	7.3	3.2	5.0	9.0	5.0	5.0	5.0	500		
ECQV1H153JL()	0.015	7.3	3.2	5.0	9.0	5.0	5.0	5.0	500		
ECQV1H183JL()	0.018	7.3	3.2	5.0	9.0	5.0	5.0	5.0	500		
ECQV1H223JL()	0.022	7.3	3.2	5.0	9.0	5.0	5.0	5.0	500		
ECQV1H273JL()	0.027	7.3	3.2	5.0	9.0	5.0	5.0	5.0	500		
ECQV1H333JL()	0.033	7.3	3.2	5.0	9.0	5.0	5.0	5.0	500		
ECQV1H393JL()	0.039	7.3	3.2	5.0	9.0	5.0	5.0	5.0	500		
ECQV1H473JL()	0.047	7.3	3.2	5.0	9.0	5.0	5.0	5.0	500		
ECQV1H563JL()	0.056	7.3	3.2	5.0	9.0	5.0	5.0	5.0	500		
ECQV1H683JL()	0.068	7.3	3.2	5.0	9.0	5.0	5.0	5.0	500		
ECQV1H823JL()	0.082	7.3	3.6	5.0	9.0	5.0	5.0	5.0	500		
ECQV1H104JL()	0.10	7.3	4.0	5.0	9.0	5.0	5.0	5.0	500		
ECQV1H124JL()	0.12	7.3	4.0	5.0	9.0	5.0	5.0	5.0	500		
ECQV1H154JL()	0.15	7.3	4.4	5.5	9.5	5.0	5.0	5.0	500		
ECQV1H184JL()	0.18	7.3	4.5	5.5	9.5	5.0	5.0	5.0	500		
ECQV1H224JL()	0.22	7.3	4.8	5.5	9.5	5.0	5.0	5.0	500		
ECQV1H274JL()	0.27	7.3	4.6	7.0	11.0	5.0	5.0	5.0	500		
ECQV1H334JL()	0.33	7.3	5.2	7.0	11.0	5.0	5.0	5.0	500		
ECQV1H394JL()	0.39	7.3	5.7	7.3	11.3	5.0	5.0	5.0	500		
ECQV1H474JL()	0.47	7.3	6.0	7.3	11.3	5.0	5.0	5.0	500		
ECQV1H564JL()	0.56	7.3	5.8	10.0	14.0	5.0	5.0	5.0	500		
ECQV1H684JL()	0.68	7.3	6.5	10.0	14.0	5.0	5.0	5.0	500		
ECQV1H824JL()	0.82	7.3	6.8	10.0	14.0	5.0	5.0	5.0	500		
ECQV1H105JL()	1.0	7.3	8.0	11.0	15.0	5.0	5.0	5.0	500		
ECQV1H125JL()	1.2	10.2	6.5	10.0	14.0	7.5	5.0	5.0	500		
ECQV1H155JL()	1.5	10.2	7.2	10.0	14.0	7.5	5.0	5.0	500		
ECQV1H185JL()	1.8	10.2	7.2	12.0	16.5	7.5	5.0	5.0	500		
ECQV1H225JL()	2.2	10.2	7.9	12.0	16.5	7.5	5.0	5.0	500		

↑ Suffix for lead crimped or taped type

Style N: 0.010 μF to 1.0 μF
Style T: 1.2 μF to 2.2 μF

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■ Rating, Dimensions & Quantity/Ammo Box or Reel

● Type ECQV(M) Rated voltage : 63 VDC

	Cap. (μ F)	Dimensions (mm)							Min. order Q'ty	
		L _{max.}	T _{max.}	H _{max.}		F	S	ϕ d	Taping	Bulk
				Straight	Crimped lead	Straight	Crimped lead			
ECQV1J103JM()	0.010	7.5	3.2	6.8	10.8	5.0	5.0	0.50	2000	500
ECQV1J123JM()	0.012	7.5	3.2	6.8	10.8	5.0	5.0	0.50		
ECQV1J153JM()	0.015	7.5	3.2	6.8	10.8	5.0	5.0	0.50		
ECQV1J183JM()	0.018	7.5	3.2	6.8	10.8	5.0	5.0	0.50		
ECQV1J223JM()	0.022	7.5	3.2	6.8	10.8	5.0	5.0	0.50		
ECQV1J273JM()	0.027	7.5	3.2	6.8	10.8	5.0	5.0	0.50		
ECQV1J333JM()	0.033	7.5	3.2	6.8	10.8	5.0	5.0	0.50		
ECQV1J393JM()	0.039	7.5	3.2	6.8	10.8	5.0	5.0	0.50		
ECQV1J473JM()	0.047	7.5	3.2	6.8	10.8	5.0	5.0	0.50		
ECQV1J563JM()	0.056	7.5	3.2	6.8	10.8	5.0	5.0	0.50		
ECQV1J683JM()	0.068	7.5	3.2	6.8	10.8	5.0	5.0	0.50		
ECQV1J823JM()	0.082	7.5	3.2	6.8	10.8	5.0	5.0	0.50		
ECQV1J104JM()	0.10	7.5	3.2	7.0	11.0	5.0	5.0	0.50		
ECQV1J124JM()	0.12	7.5	3.8	7.0	11.0	5.0	5.0	0.50		
ECQV1J154JM()	0.15	7.5	4.1	7.0	11.0	5.0	5.0	0.50		
ECQV1J184JM()	0.18	10.2	3.5	9.0	14.0	7.5	5.0	0.50		
ECQV1J224JM()	0.22	10.2	3.5	9.0	14.0	7.5	5.0	0.50		
ECQV1J274JM()	0.27	10.2	3.5	9.0	14.0	7.5	5.0	0.50		
ECQV1J334JM()	0.33	10.2	3.8	9.0	14.0	7.5	5.0	0.50		
ECQV1J394JM()	0.39	10.2	4.0	9.0	14.0	7.5	5.0	0.50		
ECQV1J474JM()	0.47	10.2	4.5	9.0	14.0	7.5	5.0	0.50		
ECQV1J564JM()	0.56	10.2	4.9	9.0	14.0	7.5	5.0	0.50		
ECQV1J684JM()	0.68	10.2	5.5	10.0	15.0	7.5	5.0	0.50		
ECQV1J824JM()	0.82	10.2	6.1	10.0	15.0	7.5	5.0	0.50		
ECQV1J105JM()	1.0	10.2	6.9	10.0	15.0	7.5	5.0	0.50		

Style N: 0.010 μ F to 0.15 μ F
 Style T: 0.18 μ F to 1.0 μ F

Stacked Metallized Film

● Type ECQV(M) Rated voltage : 100 VDC

Part No.	Cap. (μ F)	Dimensions (mm)							Min. order Q'ty	
		L _{max.}	T _{max.}	H _{max.}		F	S	ϕ d	Taping	Bulk
				Straight	Crimped lead	Straight	Crimped lead			
ECQV1103JM()	0.010	7.5	3.2	7.0	12.0	5.0	5.0	0.50	2000	500
ECQV1123JM()	0.012	7.5	3.2	7.0	12.0	5.0	5.0	0.50		
ECQV1153JM()	0.015	7.5	3.2	7.0	12.0	5.0	5.0	0.50		
ECQV1183JM()	0.018	7.5	3.2	7.0	12.0	5.0	5.0	0.50		
ECQV1223JM()	0.022	7.5	3.2	7.0	12.0	5.0	5.0	0.50		
ECQV1273JM()	0.027	7.5	3.2	7.0	12.0	5.0	5.0	0.50		
ECQV1333JM()	0.033	7.5	3.2	7.0	12.0	5.0	5.0	0.50		
ECQV1393JM()	0.039	7.5	3.2	7.0	12.0	5.0	5.0	0.50		
ECQV1473JM()	0.047	7.5	3.2	7.0	12.0	5.0	5.0	0.50		
ECQV1563JM()	0.056	7.5	3.2	7.0	12.0	5.0	5.0	0.50		
ECQV1683JM()	0.068	7.5	4.0	7.0	12.0	5.0	5.0	0.50		
ECQV1823JM()	0.082	7.5	4.1	7.0	12.0	5.0	5.0	0.50		
ECQV1104JM()	0.10	7.5	4.5	7.0	12.0	5.0	5.0	0.50		
ECQV1124JM()	0.12	10.2	3.3	9.0	14.0	7.5	5.0	0.50		
ECQV1154JM()	0.15	10.2	3.3	9.0	14.0	7.5	5.0	0.50		
ECQV1184JM()	0.18	10.2	3.6	9.0	14.0	7.5	5.0	0.50		
ECQV1224JM()	0.22	10.2	4.0	9.0	14.0	7.5	5.0	0.50		
ECQV1274JM()	0.27	10.2	4.2	9.0	14.0	7.5	5.0	0.50		
ECQV1334JM()	0.33	10.2	4.8	10.0	15.0	7.5	5.0	0.50		
ECQV1394JM()	0.39	10.2	5.5	10.0	15.0	7.5	5.0	0.50		
ECQV1474JM()	0.47	10.2	6.8	10.5	15.5	7.5	5.0	0.50		

← Suffix for lead crimped or taped type

Style N: 0.010 μ F to 0.10 μ F
 Style T: 0.12 μ F to 0.47 μ F

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