

Stacked Metallized Plastic Film Capacitors

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

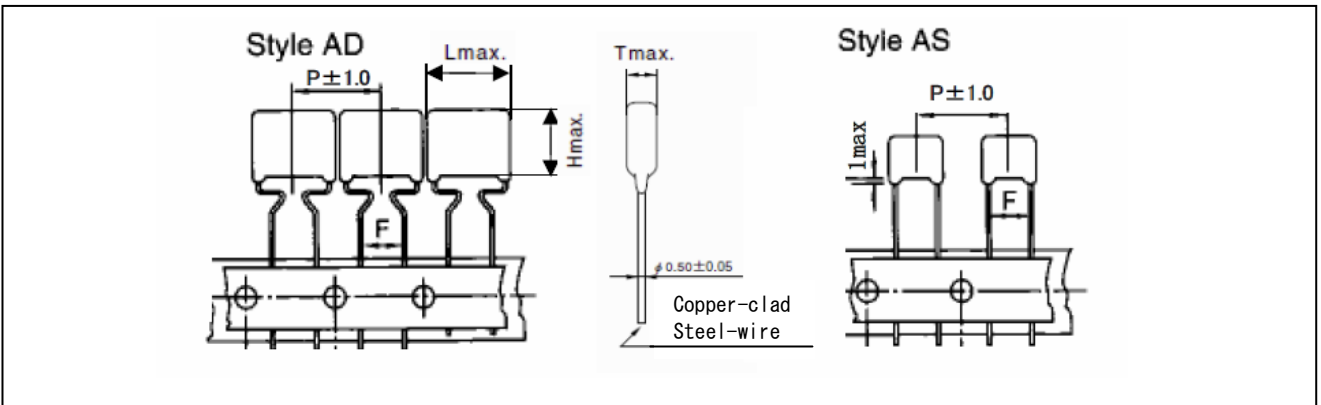
1	2	3	4	5	6	7	8	9	10	11	12
E	C	Q	V						J		
Product code		Dielectric & construction		Rated voltage		Capacitance			Cap. Tol.	Suffix	Suffix
				1H	50 VDC	L	50 VDC	Suffix		Form	
				1J	63 VDC	M	63 VDC	2	Straight taping (Ammo)		
				1	100 VDC		100 VDC	3	Crimped taping (Ammo)		

■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 (E12)
Capacitance tolerance	±5 % (J)
Dissipation factor (tan δ)	tan δ ≤1.0 % (20°C, 1kHz)
Withstand voltage	Between terminals : Rated voltage(VDC) × 150 % 60 s
Insulation resistance (IR)	C≤0.33 μF : IR≥3000 MΩ (20 °C, 50 VDC, 60 s ECQV1H, ECQV1J) C>0.33 μF : IR≥1000 MΩ·μF (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)

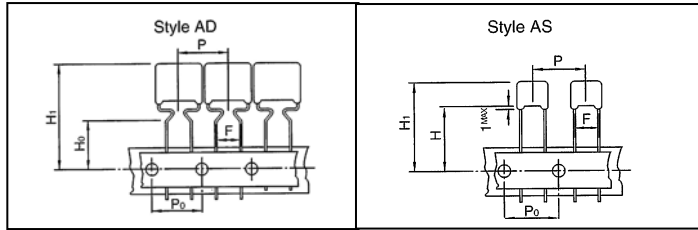


■Packaging Specification

Taping only

■Taping Specifications for Automatic Insertion

●Taping style



*Refer to the page of taping specifications.

●Packaging Specifications

Type	Rated voltage	Cap. Range (μF)	Taping Style						Packing
			AD	AS	B	C	D	E	
ECQV(L)	50 VDC	0.010 to 2.2	○						Ammo
		0.010 to 1.0		○					Ammo
ECQV(M)	63 VDC	0.01 to 1.0	○						Ammo
		0.010 to 0.15		○					Ammo
	100 VDC	0.010 to 0.47	○						Ammo
		0.010 to 0.10		○					Ammo

●Lead Spacing

Style	Lead spacing
AD	5.0 mm
AS	5.0 mm

※See the column “Rating, Dimensions & Quantity Box” for packing quantity.

■Rating, Dimension & Quantity / Ammo Box or Reel

● Type ECQV(L) Rated voltage : 50 VDC

Part No.	Capacitance (μF)	Dimensions (mm)							Quantity
		L_{max}	T_{max}	H_{max}	$F+0.8/-0.2$		$P \pm 1.0$	$\phi d \pm 0.05$	Ammo
					Style AD	Style AS			
ECQV1H103JL ()	0.010	7.3	3.2	5.0	5.0	5.0	12.7	0.50	2000
ECQV1H123JL ()	0.012	7.3	3.2	5.0	5.0	5.0	12.7	0.50	
ECQV1H153JL ()	0.015	7.3	3.2	5.0	5.0	5.0	12.7	0.50	
ECQV1H183JL ()	0.018	7.3	3.2	5.0	5.0	5.0	12.7	0.50	
ECQV1H223JL ()	0.022	7.3	3.2	5.0	5.0	5.0	12.7	0.50	
ECQV1H273JL ()	0.027	7.3	3.2	5.0	5.0	5.0	12.7	0.50	
ECQV1H333JL ()	0.033	7.3	3.2	5.0	5.0	5.0	12.7	0.50	
ECQV1H393JL ()	0.039	7.3	3.2	5.0	5.0	5.0	12.7	0.50	
ECQV1H473JL ()	0.047	7.3	3.2	5.0	5.0	5.0	12.7	0.50	
ECQV1H563JL ()	0.056	7.3	3.2	5.0	5.0	5.0	12.7	0.50	
ECQV1H683JL ()	0.068	7.3	3.2	5.0	5.0	5.0	12.7	0.50	
ECQV1H823JL ()	0.082	7.3	3.6	5.0	5.0	5.0	12.7	0.50	
ECQV1H104JL ()	0.10	7.3	4.0	5.0	5.0	5.0	12.7	0.50	
ECQV1H124JL ()	0.12	7.3	4.0	5.0	5.0	5.0	12.7	0.50	
ECQV1H154JL ()	0.15	7.3	4.4	5.5	5.0	5.0	12.7	0.50	1000
ECQV1H184JL ()	0.18	7.3	4.5	5.5	5.0	5.0	12.7	0.50	
ECQV1H224JL ()	0.22	7.3	4.8	5.5	5.0	5.0	12.7	0.50	
ECQV1H274JL ()	0.27	7.3	4.6	7.0	5.0	5.0	12.7	0.50	
ECQV1H334JL ()	0.33	7.3	5.2	7.0	5.0	5.0	12.7	0.50	
ECQV1H394JL ()	0.39	7.3	5.7	7.3	5.0	5.0	12.7	0.50	
ECQV1H474JL ()	0.47	7.3	6.0	7.3	5.0	5.0	12.7	0.50	
ECQV1H564JL ()	0.56	7.3	5.8	10.0	5.0	5.0	12.7	0.50	
ECQV1H684JL ()	0.68	7.3	6.5	10.0	5.0	5.0	12.7	0.50	
ECQV1H824JL ()	0.82	7.3	6.8	10.0	5.0	5.0	12.7	0.50	
ECQV1H105JL ()	1.0	7.3	8.0	11.0	5.0	5.0	12.7	0.50	
ECQV1H125JL ()	1.2	10.2	6.5	10.0	5.0	—	12.7	0.50	
ECQV1H155JL ()	1.5	10.2	7.2	10.0	5.0	—	12.7	0.50	
ECQV1H185JL ()	1.8	10.2	7.2	12.0	5.0	—	12.7	0.50	
ECQV1H225JL ()	2.2	10.2	7.9	12.0	5.0	—	12.7	0.50	

↑
— Suffix for taped type

■Rating, Dimension & Quantity / Ammo Box or Reel

●Type ECQV(L) Rated voltage : 63 VDC

Part No.	Capacitance (μ F)	Dimensions (mm)							Quantity
		L _{max}	T _{max}	H _{max}	F+0.8/-0.2		P±1.0	φ d±0.05	Ammo
					Style AD	Style AS			
ECQV1J103JM ()	0.010	7.5	3.2	6.8	5.0	5.0	12.7	0.50	2,000
ECQV1J123JM ()	0.012	7.5	3.2	6.8	5.0	5.0	12.7	0.50	
ECQV1J153JM ()	0.015	7.5	3.2	6.8	5.0	5.0	12.7	0.50	
ECQV1J183JM ()	0.018	7.5	3.2	6.8	5.0	5.0	12.7	0.50	
ECQV1J223JM ()	0.022	7.5	3.2	6.8	5.0	5.0	12.7	0.50	
ECQV1J273JM ()	0.027	7.5	3.2	6.8	5.0	5.0	12.7	0.50	
ECQV1J333JM ()	0.033	7.5	3.2	6.8	5.0	5.0	12.7	0.50	
ECQV1J393JM ()	0.039	7.5	3.2	6.8	5.0	5.0	12.7	0.50	
ECQV1J473JM ()	0.047	7.5	3.2	6.8	5.0	5.0	12.7	0.50	
ECQV1J563JM ()	0.056	7.5	3.2	6.8	5.0	5.0	12.7	0.50	
ECQV1J683JM ()	0.068	7.5	3.2	6.8	5.0	5.0	12.7	0.50	
ECQV1J823JM ()	0.082	7.5	3.2	6.8	5.0	5.0	12.7	0.50	
ECQV1J104JM ()	0.10	7.5	3.2	7.0	5.0	5.0	12.7	0.50	
ECQV1J124JM ()	0.12	7.5	3.8	7.0	5.0	5.0	12.7	0.50	
ECQV1J154JM ()	0.15	7.5	4.1	7.0	5.0	5.0	12.7	0.50	
ECQV1J184JM ()	0.18	10.2	3.5	9.0	5.0	—	12.7	0.50	
ECQV1J224JM ()	0.22	10.2	3.5	9.0	5.0	—	12.7	0.50	
ECQV1J274JM ()	0.27	10.2	3.5	9.0	5.0	—	12.7	0.50	
ECQV1J334JM ()	0.33	10.2	3.8	9.0	5.0	—	12.7	0.50	
ECQV1J394JM ()	0.39	10.2	4.0	9.0	5.0	—	12.7	0.50	
ECQV1J474JM ()	0.47	10.2	4.5	9.0	5.0	—	12.7	0.50	1,000
ECQV1J564JM ()	0.56	10.2	4.9	9.0	5.0	—	12.7	0.50	
ECQV1J684JM ()	0.68	10.2	5.5	10.0	5.0	—	12.7	0.50	
ECQV1J824JM ()	0.82	10.2	6.1	10.0	5.0	—	12.7	0.50	
ECQV1J105JM ()	1.0	10.2	6.9	10.0	5.0	—	12.7	0.50	

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— Suffix for taped type

●Type ECQV(L) Rated voltage : 100 VDC

Part No.	Capacitance (μ F)	Dimensions (mm)							Quantity
		L _{max}	T _{max}	H _{max}	F+0.8/-0.2		P±1.0	φ d±0.05	Ammo
					Style AD	Style AS			
ECQV1103JM ()	0.010	7.5	3.2	7.0	5.0	5.0	12.7	0.50	2,000
ECQV1123JM ()	0.012	7.5	3.2	7.0	5.0	5.0	12.7	0.50	
ECQV1153JM ()	0.015	7.5	3.2	7.0	5.0	5.0	12.7	0.50	
ECQV1183JM ()	0.018	7.5	3.2	7.0	5.0	5.0	12.7	0.50	
ECQV1223JM ()	0.022	7.5	3.2	7.0	5.0	5.0	12.7	0.50	
ECQV1273JM ()	0.027	7.5	3.2	7.0	5.0	5.0	12.7	0.50	
ECQV1333JM ()	0.033	7.5	3.2	7.0	5.0	5.0	12.7	0.50	
ECQV1393JM ()	0.039	7.5	3.2	7.0	5.0	5.0	12.7	0.50	
ECQV1473JM ()	0.047	7.5	3.2	7.0	5.0	5.0	12.7	0.50	
ECQV1563JM ()	0.056	7.5	3.2	7.0	5.0	5.0	12.7	0.50	
ECQV1683JM ()	0.068	7.5	4.0	7.0	5.0	5.0	12.7	0.50	
ECQV1823JM ()	0.082	7.5	4.1	7.0	5.0	5.0	12.7	0.50	1,000
ECQV1104JM ()	0.10	7.5	4.5	7.0	5.0	5.0	12.7	0.50	
ECQV1124JM ()	0.12	10.2	3.3	9.0	5.0	—	12.7	0.50	
ECQV1154JM ()	0.15	10.2	3.3	9.0	5.0	—	12.7	0.50	2,000
ECQV1184JM ()	0.18	10.2	3.6	9.0	5.0	—	12.7	0.50	
ECQV1224JM ()	0.22	10.2	4.0	9.0	5.0	—	12.7	0.50	
ECQV1274JM ()	0.27	10.2	4.2	9.0	5.0	—	12.7	0.50	
ECQV1334JM ()	0.33	10.2	4.8	10.0	5.0	—	12.7	0.50	1,000
ECQV1394JM ()	0.39	10.2	5.5	10.0	5.0	—	12.7	0.50	
ECQV1474JM ()	0.47	10.2	6.8	10.0	5.0	—	12.7	0.50	

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— Suffix for taped type