

Stacked Metallized Film Capacitor

Type: **ECQV**

Designed for application where high density insertion of components is required

■Features

- High volumetric efficiency
- Excellent electric characteristics in non-inductive construction
- Wide range for automatic insertion

■Recommended Applications

- General purpose usage
- Noise suppression for logic circuit

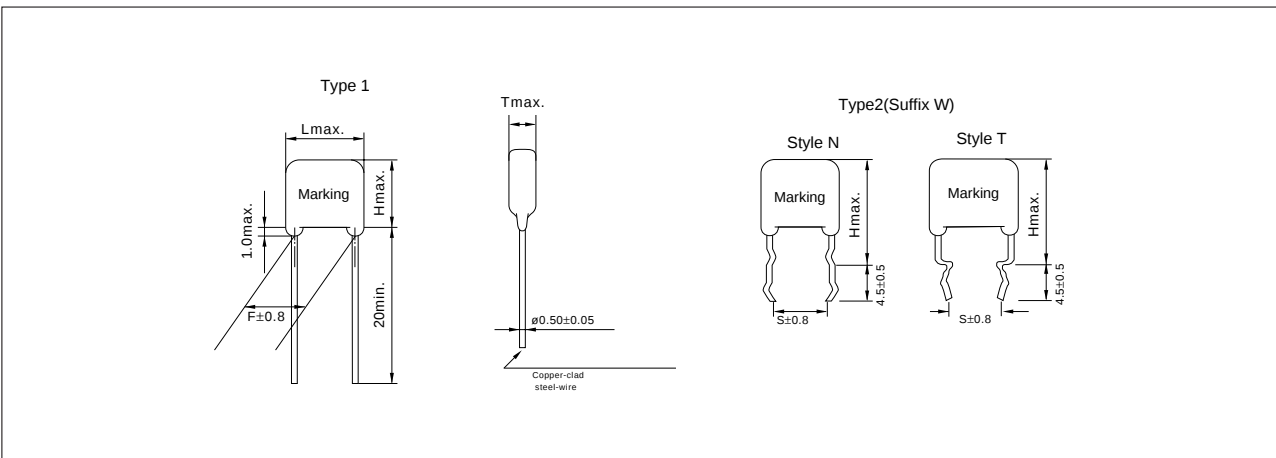
■Explanation of Part Numbers

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
50VDC 1H	63VDC 1J	100VDC 1									
					Taping				Crimped lead		
					Ammo		Reel		Type1	Type2	
					Straight	Crimped	Straight	Crimped		style N	style T
					2	3	5	9	Blank	W	

■Specifications

Category temp. range	-40 to +85°C (+105°C...50% of Rated voltage)
Rated voltage	50VDC, 63VDC, 100VDC
Capacitance range	0.01 to 2.2 μF
Capacitance tolerance	±5%(J)
Dissipation factor	1.0%max.(20°C 1kHz)
Withstand voltage	Between terminals : Rated volt.(VDC)×150% 60s
Insulation resistance	$C \leq 0.33\mu F : 3000M\Omega \text{ min.}$ (20°C, 50VDC 60s ECQV1H, ECQV1J) $C > 0.33\mu F : 1000M\Omega \cdot \mu F \text{ min.}$ (20°C, 100VDC 60s ECQV1)

■Dimensions in mm(not to scale)

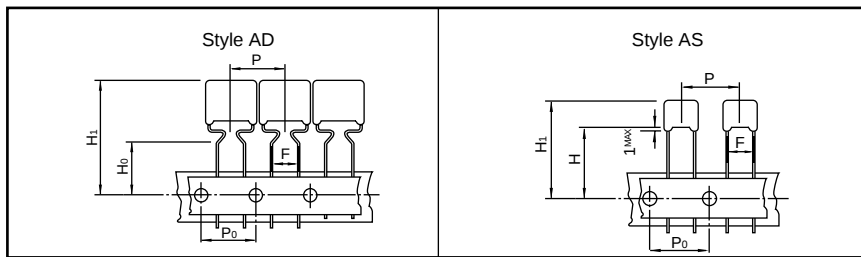


■Packaging Specifications for Bulk Package

Packing quantity: 100pcs./bag

■Taping Specifications for Automatic Insertion

●Taping style



*See page 22 for Taping dimensions

●Packaging Specifications

Type	Rated volt.	Cap. range (μF)	Taping style						Packing
			AD	AS	B	C	D	E	
ECQV (L)	50VDC	0.01 to 2.2	○						Ammo
		0.01 to 1.0		○					Ammo
		0.01 to 2.2	○						Reel
		0.01 to 1.0		○					Reel
ECQV (M)	63VDC	0.01 to 1.0	○						Ammo
		0.01 to 0.15		○					Ammo
		0.01 to 1.0	○						Reel
		0.01 to 0.15		○					Reel
	100VDC	0.01 to 0.47	○						Ammo
		0.01 to 0.47							Reel
		0.01 to 0.1		○					Ammo
		0.01 to 0.1		○					Reel

●Lead Spacing

Style	Lead Spacing
AD	5.0mm
AS	5.0mm

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

■Rating, Dimensions & Quantity/Ammo Box or Reel

●Type ECQV(L) Rated voltage : 50VDC

Part No.	Cap. (μF)	Dimensions (mm)							Quantity	
		L _{max.}	T _{max.}	H _{max.}		F	S	ød	Ammo	Reel
				Type-1	Type-2					
ECQV1H103JL()	0.01	7.3	3.2	5.0	9.0	5.0	5.0	0.50	2000	2000
ECQV1H123JL()	0.012	7.3	3.2	5.0	9.0	5.0	5.0	0.50		
ECQV1H153JL()	0.015	7.3	3.2	5.0	9.0	5.0	5.0	0.50		
ECQV1H183JL()	0.018	7.3	3.2	5.0	9.0	5.0	5.0	0.50		
ECQV1H223JL()	0.022	7.3	3.2	5.0	9.0	5.0	5.0	0.50		
ECQV1H273JL()	0.027	7.3	3.2	5.0	9.0	5.0	5.0	0.50		
ECQV1H333JL()	0.033	7.3	3.2	5.0	9.0	5.0	5.0	0.50		
ECQV1H393JL()	0.039	7.3	3.2	5.0	9.0	5.0	5.0	0.50		
ECQV1H473JL()	0.047	7.3	3.2	5.0	9.0	5.0	5.0	0.50		
ECQV1H563JL()	0.056	7.3	3.2	5.0	9.0	5.0	5.0	0.50		
ECQV1H683JL()	0.068	7.3	3.2	5.0	9.0	5.0	5.0	0.50		
ECQV1H823JL()	0.082	7.3	3.6	5.0	9.0	5.0	5.0	0.50		
ECQV1H104JL()	0.1	7.3	4.0	5.0	9.0	5.0	5.0	0.50		
ECQV1H124JL()	0.12	7.3	4.0	5.0	9.0	5.0	5.0	0.50		
ECQV1H154JL()	0.15	7.3	4.4	5.5	9.5	5.0	5.0	0.50	1000	1000
ECQV1H184JL()	0.18	7.3	4.5	5.5	9.5	5.0	5.0	0.50		
ECQV1H224JL()	0.22	7.3	4.8	5.5	9.5	5.0	5.0	0.50		
ECQV1H274JL()	0.27	7.3	4.6	7.0	11.0	5.0	5.0	0.50		
ECQV1H334JL()	0.33	7.3	5.2	7.0	11.0	5.0	5.0	0.50		
ECQV1H394JL()	0.39	7.3	5.7	7.3	11.3	5.0	5.0	0.50		
ECQV1H474JL()	0.47	7.3	6.0	7.3	11.3	5.0	5.0	0.50		
ECQV1H564JL()	0.56	7.3	5.8	10.0	14.0	5.0	5.0	0.50		
ECQV1H684JL()	0.68	7.3	6.5	10.0	14.0	5.0	5.0	0.50		
ECQV1H824JL()	0.82	7.3	6.8	10.0	14.0	5.0	5.0	0.50		
ECQV1H105JL()	1.0	7.3	8.0	11.0	15.0	5.0	5.0	0.50		
ECQV1H125JL()	1.2	10.2	6.5	10.0	14.0	7.5	5.0	0.50		
ECQV1H155JL()	1.5	10.2	7.2	10.0	14.0	7.5	5.0	0.50		
ECQV1H185JL()	1.8	10.2	7.2	12.0	16.5	7.5	5.0	0.50		
ECQV1H225JL()	2.2	10.2	7.9	12.0	16.5	7.5	5.0	0.50		

└ Suffix for lead crimped or taped type

StyleN:0.01 to 1.0 μF
StyleT:1.2 to 2.2 μF

■Rating, Dimensions & Quantity/Ammo Box or Reel

●Type ECQV(M) Rated voltage : 63VDC

Part No.	Cap. (μ F)	Dimensions (mm)							Quantity	
		L _{max.}	T _{max.}	H _{max.}		F	S	ϕ d	Ammo	Reel
				Type-1	Type-2					
ECQV1J103JM()	0.01	7.5	3.2	6.8	10.8	5.0	5.0	0.50	2000	2000
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()	0.1	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	1000	1000
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		

StyleN:0.01 to 0.15 μ FStyleT:0.18 to 1.0 μ F

●Type ECQV(M) Rated voltage : 100VDC

Part No.	Cap. (μ F)	Dimensions (mm)							Quantity	
		L _{max.}	T _{max.}	H _{max.}		F	S	ϕ d	Ammo	Reel
				Type-1	Type-2					
ECQV1103JM()	0.01	7.5	3.2	7.0	12.0	5.0	5.0	0.50	2000	2000
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	1000	1000
ECQV1823JM()	0.082	7.5	4.1	7.0	12.0	5.0	5.0	0.50		
ECQV1104JM()	0.1	7.5	4.5	7.0	12.0	5.0	5.0	0.50	2000	2000
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	1000	1000
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

StyleN:0.01 to 0.1 μ FStyleT:0.12 to 0.47 μ F