

F72 Low Profile Conformal coated Chip

Upgrade

75 Maximum CV Conformal coated Chip

FRAMELESS TM





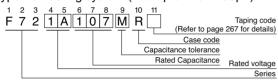


• Adapted to the RoHS directive (2002/95/EC).



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■ Type numbering system (Example : 10V 100µF)





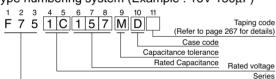


■ Dimensions

						(mm)
Case code	L	W	Н	Α	В	(D)
R	7.2 ± 0.3	6.0 ± 0.3	1.2 ± 0.3	1.3 ± 0.4	3.8 ± 0.6	(6.2)
D dimension only for reference					eference	

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■Type numbering system (Example : 16V 150µF)







Dimensions

■ DIFFICIONS (mm)							
Case code	L	W	н	Α	В	(D)	
С	7.1 ± 0.3	3.2 ± 0.3	2.5 ± 0.3	1.3 ± 0.3	3.6 ± 0.6	(6.0)	
D	7.3 ± 0.3	4.3 ± 0.3	2.8 ± 0.3	1.3 ± 0.4	3.9 ± 0.6	(6.4)	
R	7.2 ± 0.3	6.0 ± 0.3	3.5 ± 0.3	1.3 ± 0.4	3.8 ± 0.6	(6.2)	

D dimension only for reference

■Standard ratings

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ndara ratings							
	V	4	6.3	10	16		
Cap.(µF)	Code	0G	0J	1A	1C		
33	336				R		
47	476			R	R		
68	686		R	R	R		
100	107	R	R	R			
150	157	R	R	R			
220	227	R	R	R			
330	337	R	R	(R)			

■ Specifications

Item	Performance Characteristics				
Category Temperature Range	-55 ~ +125°C (Rated temperature : +85°C)				
Capacitance Tolerance	±20%, ±10% (at 120Hz)				
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Dissipation Factor (120Hz)	33~68μF 6%Max. 100μF~ 8%Max. 150μF 10%Max. 220μF~330μF 12%Max.	68~330µF 10%Max. 470µF 14%Max. 680µF 18%Max. 1000µF 24%Max. 1500µF 30%Max. 2200µF 45%Max.			
ESR (100kHz)	33μF 0.90Ω 47μF 0.80Ω 68μF 0.75Ω 100μF~ 0.70Ω	-150μF 0.22Ω 220μF 0.20Ω 330μF 0.15Ω 470-1500μF 0.12Ω 2200μF 0.07Ω			
Leakage Current	more than 0.01CV or 0.5μA, whiche • After 1 minute's application of rated more than 0.1CV or 5μA, whichever	voltage, leakage current at 85°C is not is greater. ed voltage, leakage current at 125°C is			
Capacitance Change by Temperature	+15% Max. (at +125°C) +10% Max. (at +85°C) -10% Max. (at -55°C)				
Damp Heat	At 40°C, 90-95% R.H., For 500 hours (No voltage applied) Capacitance Change Within ±10% of initial value Dissipation Factor Initial specified value or less Leakage Current Initial specified value or less				
Temperature Cycles	At-55°C / +125°C, 30 minutes each, F Capacitance Change ······ Within ± Dissipation Factor ····· Initial spu Leakage Currentv ···· Initial spe	5% of initial value ecified value or less			
Resistance to Soldering Heat	Reflow at 260°C for 10 seconds, Dipping Flow at 260°C for 10 seconds Capacitance Change Within ±5% of initial value Dissipation Factor Initial specified value or less Leakage Current Initial specified value or less				
Surge*	After application of surge in series with seconds ON, 30 seconds OFF, for 100 capacitors meet the characteristics rec Capacitance Change Within ±t Dissipation Factor Initial sputeakage Current Initial sputeakage Current	n a 33Ω resistor at the rate of 30 00 successive test cycles at 85°C, quirements listed below. 5% of initial value ecified value or less			
Endurance*	After 2000 hours' application of rated \(125^{\circ}C, capacitors meet the characteris Capacitance Change Within ± Dissipation Factor Initial sputeakage Current Initial sp	stic requirements listed below. 10% of initial value ecified value or less			
Shear Test	After applying the pressure load of 5N for 10±1 seconds horizontally to the center of capacitor side body which ha no electrode and has been soldered beforehand on an aluminum substrate, there shall be found neither exfoliation nor its sign at the terminal electrode.	5N (0.51kg • f) For 10 ± 1 seconds			
Terminal Strength	Keeping a capacitor surface-mounted down and supporting the substrate at bottom points 45mm apart from the cethe pressure strength is applied with a specified jig at the center of the substrate so that the substrate may bend by 1mm as illustrated. Then, there shall be found no remarkable abnormality on the capacitor terminals	ooth of the opposite nter of the capacitor,			

^{*} As for the surge and derated voltage at 125°C, refer to page 266 for details.

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	V	4	6.3	10	16
ap. (µF)	Code	0G	0J	1A	1C
68	686				С
100	107				С
150	157			С	D
220	227		С	C.D	R
330	337	С	C.D	D	
470	477	C.D	D	R	
680	687	D	D•R		
1000	108	D•R	R]	
1500	158	R		=	
2200	228	R			