Low Profile Conformal coated Chip

Maximum CV Conformal coated Chip

FRANCEL/555 tm

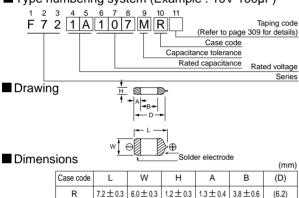


• Compliant to the RoHS directive (2002/95/EC).

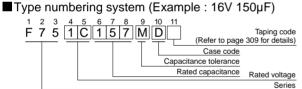


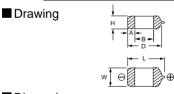
F72

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



7.2 ± 0.3 | 6.0 ± 0.3 | 2.0MAX. F75 D dimension only for reference





Dimensions						
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

1.3 ± 0.4 3.8 ± 0.6

F72

□ Standard Ratings							
	iluaiu it						
F72		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)		
	470	477			(M)		
	680	687			(M)		
	1000	108		М			
	1500	158	-	(M)			
					•		

() The series in parentheses are being developed. Please contact to your local Nichicon sales office when these series are being designed in your application.

Specifications

Item	tem Performance Characteristics				
Category	-55 to +125°C (Rated temperature : +85°C)				
Temperature Range Capacitance Tolerance	· · · · · · · · · · · · · · · · · · ·				
Capacitance Tolorance	F72	F75			
Dissipation Factor (120Hz)	33 to 68µF 6%Max. 100µF or more 8%Max. 150µF 10%Max. 220µF to 330µF 12%Max. 1000µF 30%Max.	68 to 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 100 to 330μF 0.70Ω 1000μF 0.14Ω	Less than 150μF 0.22Ω 220μF 0.20Ω 330μF 0.15Ω 470 to 1500μF 0.12Ω 2200μF 0.07Ω			
Leakage Current	After 1 minute's application of rated voltage, leakage current at 20°C is not more than 0.01CV or 0.5µA, whichever is greater. After 1 minute's application of rated voltage, leakage current at 85°C is not more than 0.1CV or 5µA, whichever is greater. After 1 minute's application of derated voltage, leakage current at 125°C is not more than 0.125CV or 6.3µA, whichever is greater.				
Capacitance Change by Temperature	+15% Max. (at +125°C) +10% Max. (at +85°C) -10% Max. (at -55°C)				
Damp Heat (Steady State) At 40°C, 90 to 95% R.H., For 500 hours (No voltage applied) Capacitance Change Refer to * 1 Dissipation Factor Initial specified value or less Leakage Current Initial specified value or less					
At-55°C / +125°C, 30 minutes each, For 5 cycles, Capacitance Change		* 1 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 Refer to * 1 Dissipation Factor Initial specified value or less Leakage Current Initial specified value or less				
Surge*	After application of surge in series with a 33Ω resistor at the rate of 30 seconds ON, 30 seconds OFF, for 1000 successive test cycles at 85°C, capacitors meet the characteristics requirements listed below. Capacitance Change Refer to * 1 Dissipation Factor Initial specified value or less Leakage Current Initial specified value or less				
Endurance*	After 2000 hours' application of rated voltage at 85°C, or derated voltage at 125°C, capacitors meet the characteristic requirements listed below. Capacitance Change Refer to * 1 Dissipation Factor Initial specified value or less Leakage Current Initial specified value or less				
After applying the pressure load of 5N for 10±1 seconds horizontally to the center of capacitor side body which has no electrode and has been soldered beforehand on an aluminum substrate, there shall be found neither exfoliation nor its sign at the terminal electrode.		S			
Terminal Strength	Keeping a capacitor surface-mounted of down and supporting the substrate at a 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 308 for details.

1 : \(\Delta \C/C \)		
I t e m	F72 M	Other
Damp Heat	±15	±10
Tempereature cycles	±15	± 5
Resistance soldering heat	±15	± 5
Surge	±15	± 5
Endurance	±15	±10

2200 228

F	7	5

	V	4	6.3	10	16
Cap. (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		-	

R