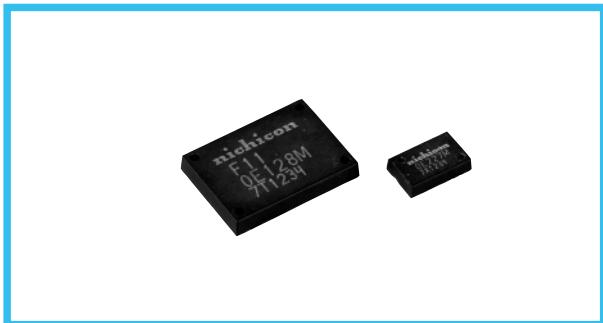
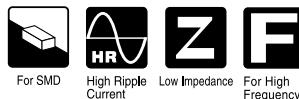
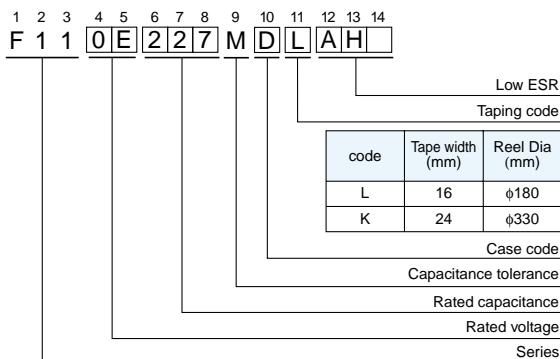


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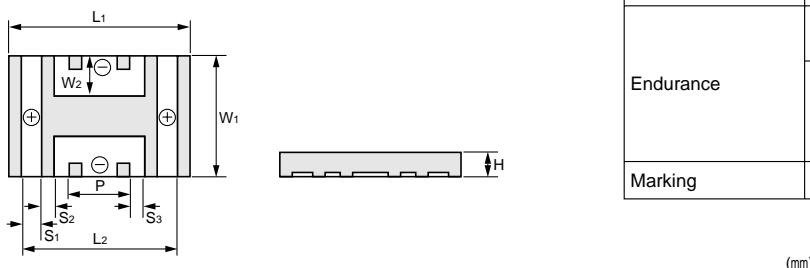
- Higher Capacitance.
- Low ESR, Low ESL, High ripple current.
- Resin-molded Chip.
- Designed for surface mounting on high density PC board.
- Load life of 5000 hours at +105°C.
- Compliant to the RoHS directive (2002/95/EC).



Type numbering system (Example : 2.5V 220 μ F)

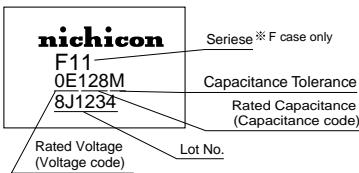


Dimensions



Case Code	L ₁	L ₂	W ₁	W ₂	H	S ₁	S ₂	S ₃	P
D	8.5 ± 0.2	7.3 ± 0.2	5.3 ± 0.2	1.7 ± 0.2	2.0MAX.	0.9 ± 0.2	0.6 ± 0.2	0.5 ± 0.2	3.3 ± 0.2
F	16.7 ± 0.2	15.6 ± 0.2	12.1 ± 0.2	3.6 ± 0.2	2.5MAX.	1.5 ± 0.1	1.3 ± 0.1	1.5 ± 0.2	7.0 ± 0.2

Marking



Specifications

Item	Performance Characteristics		
Category Temperature Range	-55 to +105°C		
Capacitance Tolerance	±20% (at 120Hz)		
Dissipation Factor	Refer to next table		
ESR	Refer to next table		
Leakage Current	After 5 minute's application of rated voltage, leakage current is not more than 0.1CV		
	At 60°C 90%RH 500hours (No voltage applied)		
Damp Heat (Steady State)	Capacitance Change - Within -20 to +30% of the initial specified value Dissipation Factor 200% or less than the Initial specified value ESR 200% or less than the Initial specified value Leakage Current Initial specified value or less		
	-55°C / +105°C 30minutes each 5cycle		
Temperature Cycles	Capacitance Change - Within ±20% of the Initial specified value Dissipation Factor 200% or less than the Initial specified value ESR 200% or less than the Initial specified value Leakage Current Initial specified value or less		
	-55°C	+105°C	
Temperature Change Characteristics	Capacitance Change Dissipation Factor ESR Leakage Current	Within -20 to +0% Initial specified value or less Initial specified value or less Initial specified value or less	Within -0 to +50% 150% or less than the initial specified value 150% or less than the initial specified value 10 times Initial specified value
	Capacitor meets the following characteristics after solder reflow (Peak: 240°C for 10sec, 2cycle). Temperature should be measured at the terminals.		
Resistance to Soldering Heat	Capacitance Change - Within ±20% of the Initial specified value Dissipation Factor Initial specified value or less ESR Initial specified value or less Leakage Current Initial specified value or less		
	After application of 115% of rating voltage at the rate of 30 seconds ON, 30 seconds OFF, for 1000 successive test cycles at 105°C, capacitors meet the characteristics requirements listed below.		
Surge	Capacitance Change - Within ±20% of the initial specified value Dissipation Factor 200% or less than the Initial specified value ESR 200% or less than the Initial specified value Leakage Current Initial specified value or less		
	After 5000 hours' application of rated voltage at 105°C, they will meet the specified value for life characteristics listed below.		
Endurance	Capacitance Change - Within ±20% of the initial value Dissipation Factor 200% or less than the Initial specified value ESR 200% or less than the Initial specified value Leakage Current Initial specified value or less		
Marking	Printed on the package top.		

Standard ratings

V	2.5	4	6.3	
Cap.(μ F)	Code	0E	0G	0J
47	476		D	D
100	107	D	D	(D)
220	227	D	(D)	
330	337	(D)		
600	607	F		F
800	807		F	
1200	128	F		

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

CAT.8100Y

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■ Ratings Table

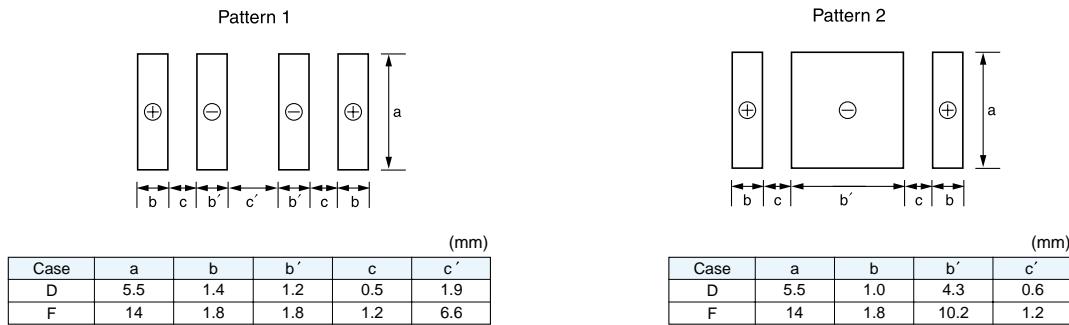
< Standard >

Rated Volt (V)	Rated Capacitance (μF)	Case code	Part Number	Leakage Current (μA)	Dissipation Factor (% @ 120Hz)	ESR (m Ω @100kHz)	Rated Ripple (Arms@100kHz)
2.5	100	D	F110E107MDL	25	5	20.0	3.5
	220	D	F110E227MDL	55	5	20.0	3.5
	600	F	F110E607MFK	150	10	5.0	6.3
	1200	F	F110E128MFK	300	10	5.0	6.3
4	47	D	F110G476MDL	19	5	20.0	3.5
	100	D	F110G107MDL	40	5	20.0	3.5
	800	F	F110G807MFK	320	10	5.0	6.3
6.3	47	D	F110J476MDL	30	5	20.0	3.5
	600	F	F110J607MFK	378	10	5.0	6.3

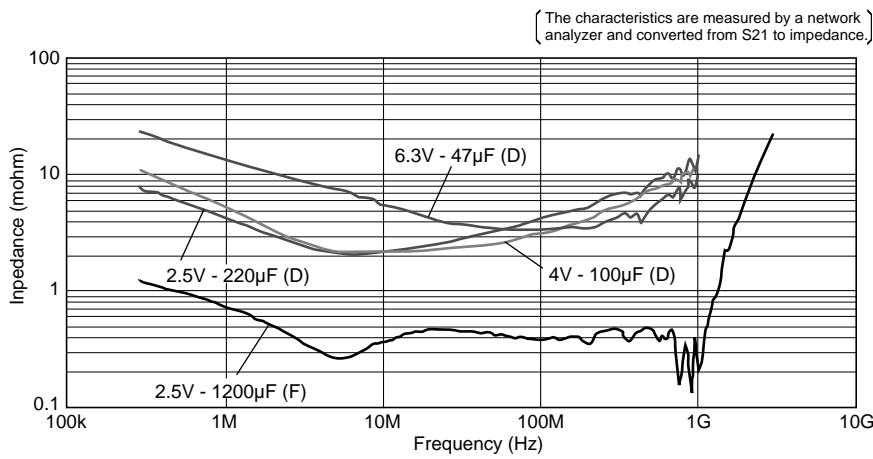
< Low ESR >

Rated Volt (V)	Rated Capacitance (μF)	Case code	Part Number	Leakage Current (μA)	Dissipation Factor (% @ 120Hz)	ESR (m Ω @300kHz)	Rated Ripple (Arms@300kHz)
2.5	220	D	F110E227MDLAH1	55	5	12.0	4.5
	1200	F	F110E128MFKAH3	300	10	1.5	11.5
4	100	D	F110G107MDLAH1	40	5	15.0	4.0
6.3	47	D	F110J476MDLAH1	30	5	15.0	4.0

■ Layout Land Pattern (Example)



■ Frequency characteristic



< Notice > The graph illustrates representative data. Please use this for reference only.