

FEATURES

- Excellent spacing factor with 5mm height.
- Long life (1,000 hours @ 85°C).
- Solvent resistant.
- Available in taping configuration for automatic mounting.

PART NUMBERING

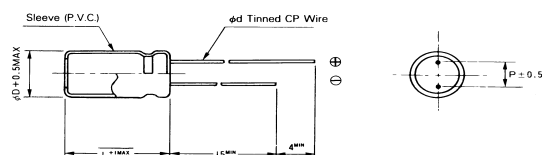
Part Number Example: 712-050/100M6X5F							
712	-	050	/	100	M	6X5	F
Type		Rated DC Voltage		Capacitance Code (μF)*	Tolerance Code	Size	RoHs Compliant

* Capacitance Code: First two digits represent significant figures, third digit represents multiplier (number of zeros).

SPECIFICATIONS

Performance Characteristics								
Operating Temperature Range	-40°C ~ +85°C.							
Temperature Characteristics (120Hz)	Impedance Ratio							
	Rated Voltage (WVDC)	4	6.3	10	16	25	35	50
	Z (-25°C) / Z (+20°C)	7	4	3	2	2	2	2
	Z (-40°C) / Z (+20°C)	15	8	6	4	4	3	3
Voltage Range	4VDC ~ 50VDC.							
Capacitance Range	0.1μF ~ 220μF.							
Capacitance Tolerance (20°C, 120Hz)	±20%.							
Maximum Dissipation Factor (20°C, 120Hz)	Rated Voltage (WVDC)	4	6.3	10	16	25	35	50
	DF %	35	24	20	16	14	12	10
Maximum Leakage Current (after 2 minutes)	0.01CV or 3μA, whichever is greater.							
Applicable Standards	Characteristics of JIS C-5141.							
Load Life Test (85°C)	After 2000 hours' application of rated voltage, capacitors meet the characteristics requirements mentioned below.							
	Capacitance Change	Within ±25% of initial value (WVDC = 4), within ±20% of initial value (WVDC > 6.3).						
	DF	200% or less of initial specified value.						
	Leakage Current	Initial specified value or less.						
Shelf Life (85°C)	After leaving capacitors under no load for 1000 hours and applying voltage according to JIS C- 5102 4-3, they meet the specified value for load life characteristics listed above.							

DIMENSIONS



DIMENSIONS (UNIT: mm)

D	3	3.5	4	5	6.3
P	1.0	1.0	1.5	2.0	2.5
dØ	0.4		0.45		

CASE SIZE OF STANDORD PRODUCTS (DXL (mm))

Cap. (µF)		WVDC						
		4	6.3	10	16	25	35	50
0.10	OR1							4x5 (3x5)
0.22	R22							4x5 (3x5)
0.33	R33							4x5 (3x5)
0.47	R47							4x5 (3x5)
1.0	010							4x5 (3x5)
2.2	2R2						3x5	4x5 (3.5x5)
3.3	3R3					3x5	3.5x5	4x5
4.7	4R7				3x5	4x5 (3.5x5)	4x5	5x5
10	100		3x5		4x5 (3.5x5)	5x5	5x5	6.3x5
22	220	4x5 (3x5)	4x5	5x5	5x5	6.3x5	6.3x5	
33	330	4x5	5x5	5x5	6.3x5	6.3x5		
47	470	4x5	5x5	6.3x5	6.3x5			
100	101	4x5	6.3x5	6.3x5				
220	221	6.3x5						

MAXIMUM RIPPLE ((mA) 85°C, 120Hz)

Cap. (µF)		WVDC						
		4	6.3	10	16	25	35	50
0.10	OR1							1 (1)
0.22	R22							2 (2)
0.33	R33							3 (2.8)
0.47	R47							5 (4)
1.0	010							9 (8)
2.2	2R2						8.4	14 (10)
3.3	3R3					10	14	17
4.7	4R7				10	17 (12)	18	22
10	100		15		23 (18)	27	29	35
22	220	19 (19)	28	34	38	44	47	
33	330	28	38	41	50	54		
47	470	34	45	54	60			
100	101	55	70	80				
220	221	90						

TYPICAL PACKAGE

Size(mm)		Qty.
ØD	L	
8	11.5	200
8	14	200
10	20	200
10	25	100
10	30	100
16	26	50
18	40	50
18	45	50
22	45	50