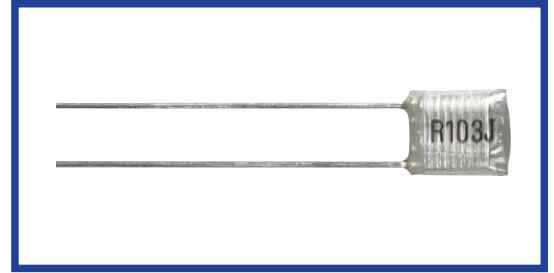


**F2D SERIES**

Foil Winding Type : Standard

•Thin coating makes it suitable for automatic insertion.

RoHS compliance



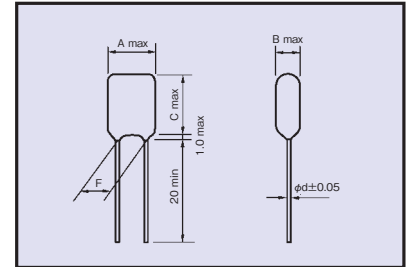
**SPECIFICATIONS**

Category Temperature Range	-40~+105°C ※
Rated Voltage (U <sub>R</sub> )	50Vdc, 100Vdc, 200Vdc
Capacitance Tolerance	±5%(J), ±10%(K)
tanδ	0.01max at 1kHz
Voltage Proof	U <sub>R</sub> ×200% 60s
Insulation Resistance	30000MΩmin
Reference Standard	JIS C 5101-11, JIS C 5101-1

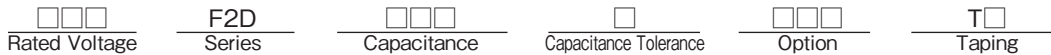
※Derate the voltage as shown in the "CAUTION FOR PROPER USE OF FILM CAPACITORS" when using the capacitor beyond 85°C.

**DIMENSIONS**

(mm)



**PART NUMBER**



**STANDARD SIZE**

:Capacitance Tolerance    \*\*:Taping

Rated Voltage	Cap(μF)	Dimensions (mm)						Typical Packaging Quantity (pcs)							Part No.
		A	B	C	F	LS <sup>※</sup> ±0.5	d	Long Lead type		Taping Ammo Pack Type - Style					
								Bag	Carton	TV	TF	-	-	TS	
50 Vdc	0.00047	6.0	3.0	7.5	3.5±0.5	5.0	0.5	200	10,000	3,000	-	-	-	3,000	50F2D471 <input type="checkbox"/> **
	0.00056	6.0	3.0	7.5	3.5±0.5	5.0	0.5	200	10,000	3,000	-	-	-	3,000	50F2D561 <input type="checkbox"/> **
	0.00068	6.0	3.0	7.5	3.5±0.5	5.0	0.5	200	10,000	3,000	-	-	-	3,000	50F2D681 <input type="checkbox"/> **
	0.00082	6.0	3.0	7.5	3.5±0.5	5.0	0.5	200	10,000	3,000	-	-	-	3,000	50F2D821 <input type="checkbox"/> **
	0.001	6.0	3.0	7.5	3.5±0.5	5.0	0.5	200	10,000	3,000	-	-	-	3,000	50F2D102 <input type="checkbox"/> **
	0.0012	6.0	3.0	7.5	3.5±0.5	5.0	0.5	200	10,000	3,000	-	-	-	3,000	50F2D122 <input type="checkbox"/> **
	0.0015	6.0	3.0	7.5	3.5±0.5	5.0	0.5	200	10,000	3,000	-	-	-	3,000	50F2D152 <input type="checkbox"/> **
	0.0018	6.0	3.0	7.5	3.5±0.5	5.0	0.5	200	10,000	3,000	-	-	-	3,000	50F2D182 <input type="checkbox"/> **
	0.0022	6.0	3.0	7.5	3.5±0.5	5.0	0.5	200	10,000	3,000	-	-	-	3,000	50F2D222 <input type="checkbox"/> **
	0.0027	6.0	3.0	7.5	3.5±0.5	5.0	0.5	200	10,000	3,000	-	-	-	3,000	50F2D272 <input type="checkbox"/> **
	0.0033	6.0	3.0	7.5	3.5±0.5	5.0	0.5	200	10,000	3,000	-	-	-	3,000	50F2D332 <input type="checkbox"/> **
	0.0039	6.0	3.0	7.5	3.5±0.5	5.0	0.5	200	10,000	3,000	-	-	-	3,000	50F2D392 <input type="checkbox"/> **
	0.0047	6.0	3.5	7.5	3.5±0.5	5.0	0.5	200	10,000	3,000	-	-	-	3,000	50F2D472 <input type="checkbox"/> **
	0.0056	6.0	3.0	7.5	3.5±0.5	5.0	0.5	200	10,000	3,000	-	-	-	3,000	50F2D562 <input type="checkbox"/> **
	0.0068	6.0	3.0	7.5	3.5±0.5	5.0	0.5	200	10,000	3,000	-	-	-	3,000	50F2D682 <input type="checkbox"/> **
	0.0082	6.0	3.0	7.5	3.5±0.5	5.0	0.5	200	10,000	3,000	-	-	-	3,000	50F2D822 <input type="checkbox"/> **
	0.01	6.5	3.5	7.5	3.5±0.5	5.0	0.5	200	8,000	2,500	-	-	-	2,500	50F2D103 <input type="checkbox"/> **
	0.012	6.5	3.0	8.5	3.5±0.5	5.0	0.5	200	8,000	2,500	-	-	-	2,500	50F2D123 <input type="checkbox"/> **
	0.015	6.5	3.0	8.5	3.5±0.5	5.0	0.5	200	8,000	2,500	-	-	-	2,500	50F2D153 <input type="checkbox"/> **
	0.018	6.5	3.0	8.5	3.5±0.5	5.0	0.5	200	8,000	2,500	-	-	-	2,500	50F2D183 <input type="checkbox"/> **
	0.022	7.0	4.0	9.5	3.5±0.5	5.0	0.5	200	8,000	2,500	-	-	-	2,500	50F2D223 <input type="checkbox"/> **
	0.027	7.0	4.0	9.5	3.5±0.5	5.0	0.5	200	5,000	2,500	-	-	-	2,500	50F2D273 <input type="checkbox"/> **
	0.033	7.0	4.0	9.5	3.5±0.5	5.0	0.5	200	5,000	2,000	-	-	-	2,500	50F2D333 <input type="checkbox"/> **
	0.039	7.5	4.0	9.5	5.0±1.0	5.0	0.5	200	5,000	2,000	-	-	-	2,000	50F2D393 <input type="checkbox"/> **
	0.047	8.0	5.0	10.0	5.0±1.0	5.0	0.5	200	4,000	2,000	-	-	-	2,000	50F2D473 <input type="checkbox"/> **
	0.056	8.0	4.5	10.5	5.0±1.0	5.0	0.5	200	4,000	2,000	-	-	-	2,000	50F2D563 <input type="checkbox"/> **
	0.068	8.0	5.0	10.5	5.0±1.0	5.0	0.5	200	4,000	1,500	-	-	-	1,500	50F2D683 <input type="checkbox"/> **
	0.082	8.5	5.0	10.5	5.0±1.0	5.0	0.5	200	3,000	1,500	-	-	-	1,500	50F2D823 <input type="checkbox"/> **
	0.1	9.0	6.0	11.5	5.0±1.0	5.0	0.5	200	3,000	1,500	-	-	-	1,500	50F2D104 <input type="checkbox"/> **
	0.12	9.0	5.5	12.0	5.0±1.0	5.0	0.5	200	3,000	1,500	-	-	-	1,500	50F2D124 <input type="checkbox"/> **
0.15	9.5	6.5	12.0	5.0±1.0	5.0	0.5	200	2,000	1,000	-	-	-	1,000	50F2D154 <input type="checkbox"/> **	
0.18	10.5	7.0	12.5	7.5±1.5	5.0	0.5	200	2,000	1,000	-	-	-	1,000	50F2D184 <input type="checkbox"/> **	
0.22	11.5	7.0	12.5	7.5±1.5	5.0	0.5	200	2,000	1,000	-	-	-	1,000	50F2D224 <input type="checkbox"/> **	
0.27	11.5	7.0	14.0	7.5±1.5	5.0	0.6	200	2,000	-	1,000	-	-	-	50F2D274 <input type="checkbox"/> **	
0.33	13.0	7.5	15.0	7.5±1.5	5.0	0.6	100	1,500	-	500	-	-	-	50F2D334 <input type="checkbox"/> **	
0.39	13.5	8.0	15.0	7.5±1.5	5.0	0.6	100	1,000	-	500	-	-	-	50F2D394 <input type="checkbox"/> **	
0.47	14.5	9.0	16.0	7.5±1.5	5.0	0.6	100	1,000	-	500	-	-	-	50F2D474 <input type="checkbox"/> **	

※LS:Please refer to Taping specification section.

◆ STANDARD SIZE

□:Capacitance Tolerance \*\*:Taping

Rated Voltage	Cap(μF)	Dimensions (mm)						Typical Packaging Quantity (pcs)								Part No.
								Long Lead type		Taping Ammo Pack Type - Style						
		A	B	C	F	*LS±0.5	d	Bag	Carton	TV	TF	—	—	TS		
100 Vdc	0.00047	6.0	3.0	7.5	3.5±0.5	5.0	0.5	200	10,000	3,000	—	—	—	3,000	100F2D471□**	
	0.00056	6.0	3.0	7.5	3.5±0.5	5.0	0.5	200	10,000	3,000	—	—	—	3,000	100F2D561□**	
	0.00068	6.0	3.0	7.5	3.5±0.5	5.0	0.5	200	10,000	3,000	—	—	—	3,000	100F2D681□**	
	0.00082	6.0	3.0	7.5	3.5±0.5	5.0	0.5	200	10,000	3,000	—	—	—	3,000	100F2D821□**	
	0.001	6.0	3.0	7.5	3.5±0.5	5.0	0.5	200	10,000	3,000	—	—	—	3,000	100F2D102□**	
	0.0012	6.0	3.0	7.5	3.5±0.5	5.0	0.5	200	10,000	3,000	—	—	—	3,000	100F2D122□**	
	0.0015	6.0	3.0	7.5	3.5±0.5	5.0	0.5	200	10,000	3,000	—	—	—	3,000	100F2D152□**	
	0.0018	6.0	3.0	7.5	3.5±0.5	5.0	0.5	200	10,000	3,000	—	—	—	3,000	100F2D182□**	
	0.0022	6.0	3.0	7.5	3.5±0.5	5.0	0.5	200	10,000	3,000	—	—	—	3,000	100F2D222□**	
	0.0027	6.0	3.0	7.5	3.5±0.5	5.0	0.5	200	10,000	3,000	—	—	—	3,000	100F2D272□**	
	0.0033	6.0	3.0	7.5	3.5±0.5	5.0	0.5	200	10,000	3,000	—	—	—	3,000	100F2D332□**	
	0.0039	6.0	3.0	7.5	3.5±0.5	5.0	0.5	200	10,000	3,000	—	—	—	3,000	100F2D392□**	
	0.0047	6.0	3.5	7.5	3.5±0.5	5.0	0.5	200	10,000	2,000	—	—	—	2,000	100F2D472□**	
	0.0056	6.0	3.5	7.5	3.5±0.5	5.0	0.5	200	10,000	2,000	—	—	—	2,000	100F2D562□**	
	0.0068	6.5	3.0	9.5	5.0 <sup>+1.0</sup> <sub>-1.0</sub>	5.0	0.5	200	8,000	2,000	—	—	—	2,000	100F2D682□**	
	0.0082	6.5	3.0	9.5	5.0 <sup>+1.0</sup> <sub>-1.0</sub>	5.0	0.5	200	8,000	2,000	—	—	—	2,000	100F2D822□**	
	0.01	7.0	4.0	10.0	5.0 <sup>+1.0</sup> <sub>-1.0</sub>	5.0	0.5	200	5,000	2,000	—	—	—	2,000	100F2D103□**	
	0.012	7.5	4.0	10.0	5.0 <sup>+1.0</sup> <sub>-1.0</sub>	5.0	0.5	200	5,000	2,000	—	—	—	2,000	100F2D123□**	
	0.015	7.5	4.0	10.0	5.0 <sup>+1.0</sup> <sub>-1.0</sub>	5.0	0.5	200	5,000	2,000	—	—	—	2,000	100F2D153□**	
	0.018	8.0	4.0	10.0	5.0 <sup>+1.0</sup> <sub>-1.0</sub>	5.0	0.5	200	4,000	2,000	—	—	—	2,000	100F2D183□**	
	0.022	8.0	4.0	12.0	5.0 <sup>+1.0</sup> <sub>-1.0</sub>	5.0	0.5	200	4,000	2,000	—	—	—	2,000	100F2D223□**	
	0.027	8.0	4.0	12.0	5.0±1.0	5.0	0.5	200	4,000	2,000	—	—	—	2,000	100F2D273□**	
	0.033	8.5	4.0	12.5	5.0±1.0	5.0	0.5	200	4,000	2,000	—	—	—	2,000	100F2D333□**	
	0.039	8.5	4.5	12.5	5.0±1.0	5.0	0.5	200	3,000	2,000	—	—	—	2,000	100F2D393□**	
0.047	9.0	4.5	12.5	5.0±1.0	5.0	0.5	200	3,000	1,000	—	—	—	1,000	100F2D473□**		
0.056	9.0	5.5	13.0	5.0±1.0	5.0	0.5	200	3,000	1,000	—	—	—	1,000	100F2D563□**		
0.068	9.0	5.5	13.0	5.0±1.0	5.0	0.5	200	3,000	1,000	—	—	—	1,000	100F2D683□**		
0.082	9.5	6.0	13.0	7.5±1.5	5.0	0.5	200	2,000	1,000	—	—	—	1,000	100F2D823□**		
0.1	10.5	6.5	13.5	7.5±1.5	5.0	0.5	200	2,000	1,000	—	—	—	1,000	100F2D104□**		
0.12	10.5	6.0	15.0	7.5±1.5	5.0	0.6	200	2,000	—	—	—	—	—	100F2D124□**		
0.15	11.5	7.0	15.0	7.5±1.5	5.0	0.6	100	1,000	—	—	—	—	—	100F2D154□**		
0.18	12.5	7.0	15.5	7.5±1.5	5.0	0.6	100	1,000	—	—	—	—	—	100F2D184□**		
0.22	13.5	8.5	15.5	7.5±1.5	5.0	0.6	100	1,000	—	—	—	—	—	100F2D224□**		
200 Vdc	0.00047	6.0	3.0	7.5	3.5±0.5	5.0	0.5	200	10,000	3,000	—	—	—	3,000	200F2D471□**	
	0.00056	6.0	3.0	7.5	3.5±0.5	5.0	0.5	200	10,000	3,000	—	—	—	3,000	200F2D561□**	
	0.00068	6.0	3.0	7.5	3.5±0.5	5.0	0.5	200	10,000	3,000	—	—	—	3,000	200F2D681□**	
	0.00082	6.0	3.0	7.5	3.5±0.5	5.0	0.5	200	10,000	3,000	—	—	—	3,000	200F2D821□**	
	0.001	6.0	3.0	7.5	3.5±1.5	5.0	0.5	200	10,000	3,000	—	—	—	3,000	200F2D102□**	
	0.0012	6.0	3.0	7.5	3.5±1.5	5.0	0.5	200	10,000	3,000	—	—	—	3,000	200F2D122□**	
	0.0015	6.0	3.0	7.5	3.5±1.5	5.0	0.5	200	10,000	3,000	—	—	—	3,000	200F2D152□**	
	0.0018	6.0	3.0	7.5	3.5±1.5	5.0	0.5	200	10,000	3,000	—	—	—	3,000	200F2D182□**	
	0.0022	6.0	3.0	7.5	3.5±1.5	5.0	0.5	200	10,000	3,000	—	—	—	3,000	200F2D222□**	
	0.0027	6.5	3.5	7.5	3.5±1.5	5.0	0.5	200	10,000	3,000	—	—	—	3,000	200F2D272□**	
	0.0033	6.5	3.5	9.5	3.5±1.5	5.0	0.5	200	10,000	2,000	—	—	—	2,000	200F2D332□**	
	0.0039	6.5	3.5	9.5	5.0 <sup>+1.0</sup> <sub>-1.0</sub>	5.0	0.5	200	8,000	2,000	—	—	—	2,000	200F2D392□**	
	0.0047	7.0	3.5	9.5	5.0 <sup>+1.0</sup> <sub>-1.0</sub>	5.0	0.5	200	8,000	2,000	—	—	—	2,000	200F2D472□**	
	0.0056	7.5	4.0	9.5	5.0 <sup>+1.0</sup> <sub>-1.0</sub>	5.0	0.5	200	5,000	2,000	—	—	—	2,000	200F2D562□**	
	0.0068	7.5	4.0	10.0	5.0 <sup>+1.0</sup> <sub>-1.0</sub>	5.0	0.5	200	5,000	2,000	—	—	—	2,000	200F2D682□**	
	0.0082	7.0	4.0	12.0	5.0 <sup>+1.0</sup> <sub>-1.0</sub>	5.0	0.5	200	5,000	2,000	—	—	—	2,000	200F2D822□**	
	0.01	7.5	4.5	12.5	5.0 <sup>+1.0</sup> <sub>-1.0</sub>	5.0	0.5	200	4,000	2,000	—	—	—	2,000	200F2D103□**	
	0.012	8.0	4.5	12.5	5.0 <sup>+1.0</sup> <sub>-1.0</sub>	5.0	0.5	200	4,000	1,000	—	—	—	1,000	200F2D123□**	
	0.015	8.0	4.5	12.5	5.0 <sup>+1.0</sup> <sub>-1.0</sub>	5.0	0.5	200	4,000	1,000	—	—	—	1,000	200F2D153□**	
	0.018	8.5	5.0	12.5	5.0 <sup>+1.0</sup> <sub>-1.0</sub>	5.0	0.5	200	4,000	1,000	—	—	—	1,000	200F2D183□**	
	0.022	9.0	5.0	13.0	5.0 <sup>+1.0</sup> <sub>-1.0</sub>	5.0	0.5	200	3,000	1,000	—	—	—	1,000	200F2D223□**	
	0.027	9.5	5.5	13.0	5.0 <sup>+1.0</sup> <sub>-1.0</sub>	5.0	0.5	200	3,000	1,000	—	—	—	1,000	200F2D273□**	
	0.033	10.0	6.0	13.0	5.0 <sup>+1.0</sup> <sub>-1.0</sub>	5.0	0.5	200	3,000	1,000	—	—	—	1,000	200F2D333□**	
	0.039	10.0	6.0	15.0	7.5±1.5	5.0	0.5	200	3,000	750	—	—	—	750	200F2D393□**	
0.047	11.0	6.0	15.0	7.5±1.5	5.0	0.5	200	2,000	750	—	—	—	750	200F2D473□**		
0.056	11.0	6.5	15.0	7.5±1.5	5.0	0.5	100	2,000	—	500	—	—	—	200F2D563□**		
0.068	11.5	7.0	15.0	7.5±1.5	5.0	0.6	100	2,000	—	500	—	—	—	200F2D683□**		
0.082	11.5	7.0	18.0	7.5±1.5	5.0	0.6	100	2,000	—	—	—	—	—	200F2D823□**		
0.1	12.5	7.5	18.5	7.5±1.5	5.0	0.6	100	1,000	—	—	—	—	—	200F2D104□**		