

NEC-TOKIN Electric Double Layer Supercapacitors

NEC/TOKIN

FC SERIES

Features:

- Enables surface mounting
- High rated voltage of 5.5V
- High reliability solution leakage

3.5V Type Specifications:

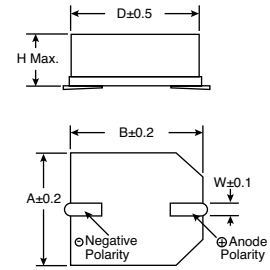
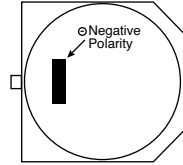
- Operating temperature range: -25°C to +70°C
- Maximum operating voltage: 3.5VDC
- Nominal capacitance range: 0.10 to 0.47F
- Capacitance allowance: +80%, -20%

Applications:

- Subsidiary power supply
- Buck up power supply line
- Memory backup during battery exchange

5.5V Type Specifications:

- Operating temperature range: -25°C to +70°C
- Maximum operating voltage: 5.5VDC
- Capacitance allowance: +80%, -20%



MOUSER STOCK NO.	NEC-TOKIN Part No.	Max. Rated Voltage (V)	Nominal Capacitance (F)	Max. ESR (at 1kHz) (Ω)	Max. Current at 30 Minutes (mA)	Min. Holding Voltage (V)	Dimensions: mm					Price Each			Reel Qty.	Price Per Piece
							D	H	A	B	W	1	50	100		
878-FC0H104ZFTBR24	FC0H104ZFTBR24	5.5	0.10	25	0.15	4.2	10.5	5.5	10.8	10.8	1.2				1000	
878-FC0H105ZFTBR44	FC0H105ZFTBR44	5.5	1.00	7	1.50	4.2	21.0	10.5	21.6	21.6	1.4				150	
878-FC0H224ZFTBR24	FC0H224ZFTBR24	5.5	0.22	25	0.33	4.2	10.5	8.5	10.8	10.8	1.2				500	
878-FC0H474ZFTBR32	FC0H474ZFTBR32	5.5	0.47	13	0.71	4.2	16.0	9.5	16.3	16.3	1.2				200	
878-FC0V104ZFTBR24	FC0V104ZFTBR24	3.5	0.10	50	0.09	- - -	10.5	5.5	10.8	10.8	1.2				1000	
878-FC0V474ZFTBR24	FC0V474ZFTBR24	3.5	0.47	25	0.42	- - -	10.5	8.5	10.8	10.8	1.2				500	

FS SERIES

The FS series Super Capacitors are ideal as short-time (30 minutes max.) backup devices in small and lightweight systems.

Features:

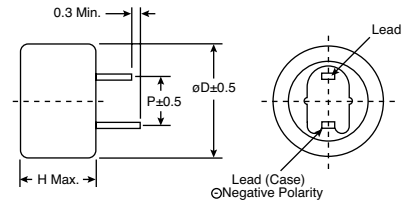
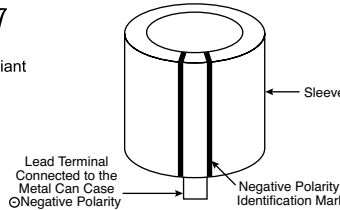
- Ideal for supplying current of several hundred μA to several mA for short time

Applications:

- Backup source for microcomputers and buffer for momentary high-current loads (for example, motors)

Specifications:

- Operating temperature range: -25°C to +70°C
- Capacitance allowance: +80%, -20%



For quantities of 2000 and up, call for quote.

MOUSER STOCK NO.	NEC-TOKIN Part No.	Max. Rated Voltage (V)	Nominal Capacitance (F)	Max. ESR (at 1kHz) (Ω)	Max. Current at 30 Minutes (at 1kHz) (mA)	Dimensions: mm			Price Each					
						D	H	P	1	50	100	500	1000	
878-FS0H104ZF	FS0H104ZF	5.5	0.1	25	0.15	16.5	8.5	5.08						
878-FS0H105ZF	FS0H105ZF	5.5	1	7	1.5	28.5	14	10.16						
878-FS0H224ZF	FS0H224ZF	5.5	0.22	25	0.33	16.5	13	5.08						
878-FS0H473ZF	FS0H473ZF	5.5	0.047	40	0.071	13	8.5	5.08						
878-FS0H474ZF	FS0H474ZF	5.5	0.47	13	0.71	21.5	13	7.62						
878-FS1A105ZF	FS1A105ZF	11	1	7	3	28.5	31.5	10.16						
878-FS1A474ZF	FS1A474ZF	11	0.47	7	1.41	28.5	25.5	10.16						

FY SERIES

The FY series includes small-size electric double-layer capacitors with excellent voltage holding characteristics. The FYD type occupies only a small area on a printed circuit board, and the FYH and FYL types feature a low profile in height, so that they can be used in various systems. These capacitors are ideal as long-time backup devices for minute-current loads in small and lightweight systems.

Features:

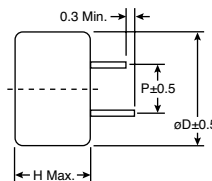
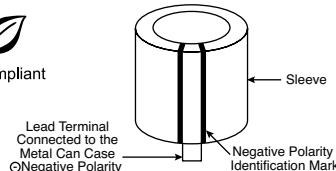
- Product variety makes the FYD, FYH, and FYL types suitable for use in many types of application systems.
- Excellent voltage holding characteristics ideal for backup of 1μA to several hundred μA.
- Smaller than other Super Capacitors (25% less than FS series in volume)
- Capacitance ranges from low to high (0.01F to 2.2F).

Applications:

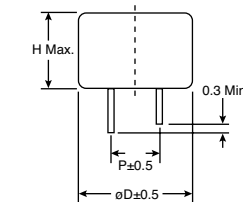
- Backup of CMOS microcomputers, static RAMs, DTSs (digital tuning systems)
- Memory backup of remote controllers and handy cassette player during battery exchange

Specifications:

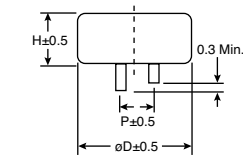
- Operating temperature range: -25°C to +70°C
- Maximum operating voltage: 5.5VDC
- Capacitance allowance: +80%, -20%



FYD-Type



FYH-Type



FYL-Type

For quantities of 2000 and up, call for quote.

MOUSER STOCK NO.	NEC-TOKIN Part No.	Max. Rated Voltage (V)	Nominal Capacitance (F)	Max. ESR (at 1kHz) (Ω)	Max. Current at 30 Minutes (mA)	Min. Holding Voltage (V)	Dimensions: mm				Price Each				
							D	H	P	L	1	50	100	500	1000
878-FYD0H104ZF	FYD0H104ZF	5.5	0.1	100	0.15	4.2	13	8.5	5.08	2.2					
878-FYD0H105ZF	FYD0H105ZF	5.5	1	35	1.5	4.2	21.5	16	7.62	3					
878-FYD0H225ZF	FYD0H225ZF	5.5	2.2	35	3.3	4.2	28.5	22	10.16	6.1					
878-FYD0H473ZF	FYD0H473ZF	5.5	0.047	220	0.071	4.2	11.5	8.5	5.08	2.7					
878-FYD0H474ZF	FYD0H474ZF	5.5	0.47	65	0.71	4.2	16.5	15	5.08	2.7					
878-FYH0H105ZF	FYH0H105ZF	5.5	1	20	1.5	4.2	28.5	11	10.16	6.1					
878-FYH0H224ZF	FYH0H224ZF	5.5	0.22	60	0.33	4.2	16.5	9.5	5.08	2.7					
878-FYH0H473ZF	FYH0H473ZF	5.5	0.047	100	0.071	4.2	13	7	5.08	2.2					
878-FYH0H474ZF	FYH0H474ZF	5.5	0.47	35	0.71	4.2	21.5	10	7.62	3					
878-FYL0H473ZF	FYL0H473ZF	5.5	0.047	200	0.071	4.2	12	5	5.08	2.7					