

SF 7MML低阻抗品 (CD28S)

● 7mm高度, 低阻抗。

Be 7mm in height, Low impedance。

● 适用于DC-DC转换器等需用到小体积和低阻抗的场合。

Used in DC-DC converters where smaller case size and lower impedance are required。



Specifications

项目 Item	特性 Characteristics					
工作温度范围 Operating temperature range	-40°C~+105°C					
额定电压范围 Rated voltage range	6.3V~35V DC					
静电容量范围 Nominal capacitance range	6.8μF~220μF					
静电容量误差 Capacitance tolerance	±20% (120Hz:20°C)					
漏电流 (20°C) leakage current(20°C)	I≤0.01CV or 3μA(whichever is greater) after 2 minute					
	I: Leakage current C: Normnal capacitance V: Rated voltage					
损耗角正切 Dissipation factor (120Hz:20°C)	Rated voltage(V)	6.3	10	16	25	35
	tgδ(MAX)	0.18	0.16	0.14	0.12	0.12
低温特性 Low temperature characteristics (Impedance ratio max. at 120Hz)	Rated voltage(v)	6.3	10	16	25	35
	Z-25°C/Z+20°C	2	2	2	2	2
	Z-40°C/Z+20°C	3	3	3	3	3
高温负荷特性 Load Life	After applying rated voltage for 1000 hours at 105°C then resumed 16 hours:					
	Capactiance change	Within ±20% of the initial measured value				
	tgδ	≤200% of the initial specified value				
	Leakage current	≤initial specified value				
高温贮存特性 Shelf Life	After storage for 1000 hours at 105°C then resumed 16 hours:					
	Capactiance change	Within ±20% of the initial measured value				
	tgδ	≤200% of the initial specified value				
	Leakage current	≤initial specified value				

Diagram of Dimensions(mm)

	φD	4	5	6.3	8
	F±0.5	1.5	2.0	2.5	3.5
	φ d±0.05	0.45	0.45	0.5	0.5
	α	1.0	1.0	1.0	1.0

Multiplier for Ripple Current vs. Frequency:

Frequency(Hz)	50(60)	120	1K	≥10K	100K
Factor	0.35	0.40	0.75	0.90	1.00

Multiplier for Ripple Current vs. Temperature

Temperature°C	~55	60	70	85	105
Factor	2.23	2.17	2.00	1.75	1.00

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Standard Ratings

WV(Coad)		6.3V(0J)			10V(1A)			16V(1C)		
C(uf)	Coad	φD×L	R.C.	IMP	φD×L	R.C.	IMP	φD×L	R.C.	IMP
6.8	6R8									
10	100									
15	150							4×7	70	3.3
22	220				4×7	250	0.3	5×7	110	1.7
33	330	5×7	110	1.7	5×7	115	1.7	6.3×7	160	0.8
47	470	5×7	110	1.7	6.3×7	160	0.8	6.3×7	160	0.8
68	680	6.3×7	160	0.8	6.3×7	165	0.8	8×7	200	0.5
100	101	6.3×7	160	0.8	8×7	200	0.5	8×7	210	0.5
150	151	8×7	200	0.5	8×7	205	0.5			
220	221	8×7	200	0.5						

WV(Coad)		25V(1E)			35V(1V)					
C(uf)	Coad	φD×L	R.C.	IMP	φD×L	R.C.	IMP			
6.8	6R8				4×7	70	3.3			
10	100	4×7	70	3.3	5×7	110	1.7			
15	150	5×7	110	1.7	6.3×7	132	0.8			
22	220	5×7	110	1.7	6.3×7	160	0.8			
33	330	6.3×7	160	0.8	8×7	200	0.5			
47	470	8×7	200	0.5	8×7	230	0.5			
68	680	8×7	200	0.5						
100	101	8×7	300	0.4						
150	151									
220	221									

Permit ripple current : (mArms, 105°C, 100KHZ);

Case size: φD×L (mm)

Permit impedance : (Ω, 20°C, 100KHZ)