

SP 7mmL无极性品 (CD11N型)

- 7MM高度, 极性可反转或变换。

Be 7mm in height,the polarity can be reversed.

- 适用于信号耦合等极性需反转变换的电路。

Used in circuits what polarity is reversed,such as signal coupling ,etc.



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~50V DC						
静电容量范围 Nominal capacitance range	0.1μF~220μF						
静电容量误差 Capacitance tolerance	±20% (120Hz:20°C)						
漏电流 (20°C) leakage current(20°C)	I ≤ 0.05CV or 10μA (whichever is greater) after 2 minute						
	I: Leakage current C: Normal capacitance V: Rated voltage						
损耗角正切 Dissipation factor (120Hz:20°C)	Rated voltage(V)	6.3	10	16	25	35	50
	tgδ(MAX)	0.24	0.20	0.16	0.16	0.14	0.12
低温特性 Low temperature characteristics (Impedance ratio max. at 120Hz)	Rated voltage(v)	6.3	10	16	25	35	50
	Z-25°C/Z+20°C	4	3	2	2	2	2
	Z-40°C/Z+20°C	8	6	4	4	3	3
高温负荷特性 Load Life	After applying rated voltage for 1000 hours at 105°C then resumed 16 hours:						
	Capacitance 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:						
	Capacitance change	Within ±20% of the initial measured value					
	tgδ	≤200% of the initial specified value					
	Leakage current	≤initial specified value					

Diagram of Dimensions(mm)

	φ D	4	5	6.3	8
	F ± 0.5	1.5	2.0	2.5	3.5
	φ d ± 0.05	0.45		0.50	
	α	1.0			

Multiplier for Ripple Current vs. Frequency:

CAP(μF)\Hz	50(60)	120	1K	≥10K
CAP < 47	0.75	1.00	1.57	2.00
CAP ≥ 47	0.80	1.00	1.34	1.50

Multiplier for Ripple Current vs. Temperature:

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

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■ Standard Ratings

WV(Coad)		6.3V (0J)		10V (1A)		16V (1C)		25V (1E)	
C(uf)	Coad	φD×L	R. C.	φD×L	R. C.	φD×L	R. C.	φD×L	R. C.
0.1	0R1								
0.22	R22								
0.33	R33								
0.47	R47								
1	010								
2.2	2R2								
3.3	3R3								
4.7	4R7					4×7	13	5×7	15
10	100			4×7	17	5×7	21	6.3×7	25
22	220			5×7	28	6.3×7	36	6.3×7	37
33	330	5×7	29	6.3×7	39	6.3×7	44	8×7	51
47	470	6.3×7	41	6.3×7	47	6.3×7	53	8×7	61
100	101	8×7	67	8×7	77	8×7	88		
220	221	8×7	98						

WV(Coad)		35V (1V)		50V (1H)					
C(uf)	Coad	φD×L	R. C.	φD×L	R. C.				
0.1	0R1			4×7	0.7				
0.22	R22			4×7	1.6				
0.33	R33			4×7	2.5				
0.47	R47			4×7	3.6				
1	010			4×7	7.0				
2.2	2R2			4×7	10				
3.3	3R3	4×7	11	5×7	14				
4.7	4R7	5×7	15	6.3×7	20				
10	100	6.3×7	26	8×7	31				
22	220	8×7	43	8×7	46				
33	330	8×7	53						
47	470								
100	101								
220	221								

Permit ripple current : (mArms, 105°C, 120HZ)

Case size: φD×L (mm)