

ST 7mmL宽温度品 (CD21C型)

● 7MM高度, 105℃。

Be 7mm in height, 105℃.

● 适用于移动通讯, 袖珍对讲机, 汽车音响等电路。

Used in locomotive communication, pocked intercom telephones, car audio circuits, etc.



Specifications

项目 Item	特性 Characteristics								
工作温度范围 Operating temperature range	-40℃~+105℃								
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℃)								
漏电流 (20℃) leakage current(20℃)	I≤0.01CV or 3μA(whichever is greater) after 2 minute								
	I: Leakage current C: Normal capacitance V: Rated voltage								
损耗角正切 Dissipation factor (120Hz:20℃)	Rated voltage(V)	6.3	10	16	25	35	50	删除	
	tgδ(MAX)	0.24	0.20	0.16	0.14	0.12	0.10		
低温特性 Low temperature characteristics (Impedance ratio max. at 120Hz)	Rated voltage(v)	6.3	10	16	25	35	50		
	Z-25℃/Z+20℃	4	2	2	2	2	2		
	Z-40℃/Z+20℃	8	5	4	3	3	3		
高温负荷特性 Load Life	After applying rated voltage for 1000 hours at 105℃ 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℃ 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)

	φD	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<100	0.80	1.00	1.30	1.50
CAP≥100	0.80	1.00	1.15	1.20

Multiplier for Ripple Current vs. Temperature:

Temperature℃	~55	70	85	105
Factor	2.23	2.0	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								
10	100					4×7	29	5×7	33
22	220	4×7	34	5×7	38	5×7	44	6.3×7	51
33	330	5×7	42	5×7	47	6.3×7	57	6.3×7	63
47	470	5×7	50	6.3×7	59	6.3×7	68	8×7	78
100	101	6.3×7	77	8×7	96	8×7	107	8×7	115
220	221	8×7	130	8×7	140				

WV(Coad)		35V(1V)		50V(1H)					
C(uf)	Coad	φD×L	R. C.	φD×L	R. C.				
0.1	0R1			4×7	1.0				
0.22	R22			4×7	2.3				
0.33	R33			4×7	3.5				
0.47	R47			4×7	5.0				
1	010			4×7	10				
2.2	2R2			4×7	19				
3.3	3R3			4×7	24				
4.7	4R7	4×7	24	5×7	29				
10	100	5×7	36	6.3×7	44				
22	220	6.3×7	57	8×7	65				
33	330	8×7	72	8×7	78				
47	470	8×7	80						
100	101								
220	221								

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

Case size: φD×L (mm)