K53-4

NIOBIUM SOLID-ELECTROLYTE CAPACITOR

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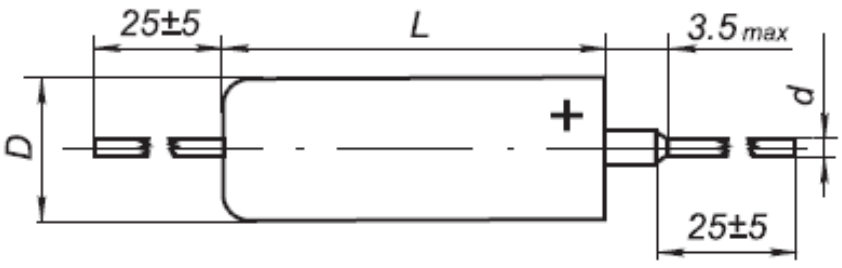
OZH0.464.037 TU

Capacitors are suitable for operation in direct current and ripple current circuits and available in tropical, temperate/cold climate version. Hermetically-sealed design.

MAIN PARAMETERS

Name	Value
Rated voltage, V	6.3...20
Rated capacitance, μF	0.47...100
Capacitance tolerance (20°C, 50 Hz), %	±10; ±20; ±30
Maximum operating temperature Tenv, °C	+85
Minimal operating temperature Tenv, °C	-60

CAPASITOR PHYSICAL CONFIGURATION



CAPACITORS OVERALL DIMENSIONS AND MASS

U_R, V	6.3	16	20
C_R, µF	D x L x d, mm mm, g		
0.47		3.2x7.5x0.6 0.6	
0.68	3.2x7.5x0.6 0.6	3.2x7.5x0.6 0.6	
1	3.2x7.5x0.6 0.6	3.2x7.5x0.6 0.6	3.2x7.5x0.6 0.6
1.5	3.2x7.5x0.6 0.6	3.2x7.5x0.6 0.6	3.2x7.5x0.6 0.6
2.2	3.2x7.5x0.6 0.6	3.2x7.5x0.6 0.6	3.2x7.5x0.6 0.6
3.3	3.2x7.5x0.6 0.6	3.2x7.5x0.6 0.6	4x10x0.6 1
4.7	3.2x7.5x0.6 0.6	4x10x0.6 1	4x10x0.6 1
6.8	4x10x0.6 1	4x10x0.6 1	4x13x0.6 1.1
10	4x13x0.6 1.1	4x13x0.6 1.1	4x13x0.6 1.1
15	4x13x0.6 1.1	4x13x0.6 1.1	7x12x0.8 3.5
22	4x13x0.6 1.1	7x12x0.8 3.5	7x12x0.8 3.5
33	7x12x0.8 3.5	7x12x0.8 3.5	7x16x0.8 4
47	7x12x0.8 3.5	7x16x0.8 4	7x16x0.8 4
68	7x16x0.8 4	7x16x0.8 4	
100	7x16x0.8 4		

CAPACITORS RELIABILITY

Modes and operating conditions	Minimal nonfailure operating time, t_Λ, hours
Maximum-permissible mode (U_R, Tenv=85°C), hour	10 000
Storageability Gamma-rated time of capacitor storageability Tcy at y=99.5%, years, min	20

CAPACITOR ELECTRIC PARAMETERS VALUE WHEN DELIVERED

U_R, V	C_R, µF	I_{LEAK}, µA, 20°C, after 60 sec., max	tg δ, %, 20°C, 50 Hz, max
6.3	0.68-22	10	15
16	0.47-15		
20	1-10		
6.3	33-100	25	20
16	22-68		
20	15-47		

EXAMPLE OF REFERENCE DESIGNATION FOR ORDERING

CAPACITOR K53-4 – 6.3V – 68µF ±20% OZH0.464.037 TU
CAPACITOR K53-4 – 6.3V – 68µF ±20% T OZH0.464.037 TU