nichicon

ALUMINUM ELECTROLYTIC CAPACITORS



• Added ESR specification after the test at -40°C.

• Compliant to the RoHS directive (2011/65/EU).

• Applicable to automatic mounting machine fed with carrier tape.

Chip Type, High Reliability. Low temperature ESR specification.



Low ESR UCZ





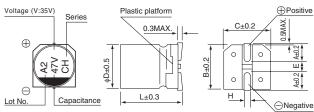
Specifications

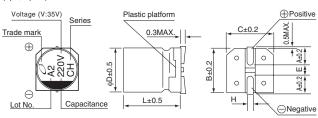
Item	Performance Characteristics		
Category Temperature Range	-40 to +125°C		
Rated Voltage Range	35V		
Rated Capacitance Range	47 to 330µF		
Capacitance Tolerance	±20% at 120Hz, 20°C		
Leakage Current	After 2 minutes' application of rated voltage, leakage current i	is not more than 0.01C	Ι.
Tangent of loss angle (tan $\delta)$	Rated voltage (V) 35 tan δ (MAX.) 0.16		
Stability at Low Temperature	Rated voltage (V) 35 Impedance ratio ZT / Z20 (MAX.) Z-40°C / Z+20°C 3		
Endurance	The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 2000 hours at 125°C.	$\begin{array}{c} \text{Capacitance change} \\ \tan\delta \\ \text{Leakage current} \end{array}$	Within ±30% of the initial capacitance value 300% or less than the initial specified value Less than or equal to the initial specified value
Shelf Life	After storing the capacitors under no load at 125°C for 1000 h clause 4.1 at 20°C, they shall meet the specified values for th		
Resistance to soldering heat	The capacitors are kept on a hot plate for 30 seconds, which is maintained at 250°C. The capacitors shall meet the characteristic requirements listed at right when they are removed from the plate and restored to 20°C.	Capacitance change tan δ Leakage current	Within ±10% of the initial capacitance value Less than or equal to the initial specified value Less than or equal to the initial specified value
Marking	Black print on the case top.		

UCH

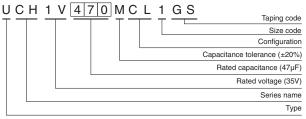
Chip Type

(\$ 6.3)





Type numbering system (Example : 35V 47 μ F) 1 2 3 4 5 6 7 8 9 10 11 12 13 14



Rated Voltage				(mm)
V 35	#DXL	6.3×7.7	8×10	10×10
Code V	A	2.4	2.9	3.2
	В	6.6	8.3	10.3
	С	6.6	8.3	10.3
	E	2.2	3.1	4.5
	L	7.7	10	10
	H	0.5 to 0.8	0.8 to 1.1	0.8 to 11

• Frequency coefficient of rated ripple current

Freque	ency	50Hz	120Hz	300Hz	1kHz	10kHz or more
Coeffic	cient	0.35	0.50	0.64	0.83	1.00

Dimensions \sim V

\searrow	V	35
Сар. (μF)	Code	1V
47	470	6.3×7.7 0.30 3 6 197
100	101	6.3×7.7 0.30 3 6 197
220	221	8 × 10 0.20 2 4.5 270
330	331	10 × 10 0.15 1.5 3.5 500
		Case size Initial Ini

Max. ESR (Ω) at 20°C / -40°C 100k to 400kHz, Rated ripple Current (mArms) at 125°C 100kHz