

Surface Mount Solid Aluminum Electrolytic Capacitors

- Benefits of Flat Chip Al-Electrolytics
- NPC-Series
- NSP-Series



We are offering the following manufacturer



10 years cooperation of NIC and wts//electronic components enables us to support our customers with high quality products and logistical competence.



Aluminum Capacitors using a solid electrolyte are usually build with a high conductive polymer or an organic semiconductor material.

Their advantage is a fairly low ESR value. This ESR value does only change little when the capacitor is exposed to low temperature, which makes those capacitors suitable for cold environments.



Also Aluminum Solid Capacitors are having an excellent frequency characteristic as well as a good noise reduction.

As the solid material can not vaporize as the wet material may do, the life time of the Aluminum Solid Capacitors is also increased.



Why shall I use a SMD Flat Chip Aluminum Electrolytic Capacitor?

- Flat Chips may substitute talntalum chips as they use the same land pattern
- Flat Chips are suitable for Pb-free reflow soldering process
- Flat Chips will enable you to save space on your PCB
- Flat Chips offer a high-performance capacitor solution

Where can I use a SMD Flat Chip Aluminum Electrolytic Capacitor?



Power Management Power Supply Voltage Regulators



Broadband Ethernet Servers



Multiprocessor Mini PC

Equivalent Series Resistance (ESR)

The equivalent series resistance is the sum of losses within the capacitor. Those losses are unwanted, The ESR is also part of the equivalent circuit of a capacitor:



The ESR is influenced by the material, construction as well as the conductibility of the electrolyte. Solid electrolytes as they are used in flat chip aluminium caps have a very low ESR.

Where can I get samples of the SMD Flat Chip Capacitors?

You can order your sample kit today!

Just contact us at marketing@wts-electronic.de Or visit our website www. wts-electronic.de





NPC Series

- Low impedance and low ESR (0.007 Ohm)
- Wide temperature range -55°C+105°C
- Compatible with +260°C Reflow Soldering
- Gold Termination Plating
- High Ripple Current

CAPABILITIES

Capacitance Range	10μF470μF
Capacitance Tolerance	20%
Voltage Ratings	2.0Vdc8Vdc
Ripple Current	up to 3,500mA
Case Size	"D" (EIA 7343)
Load Life	2000h



Case	L ± 0.2	W ± 0.2	H ± 0.1	W1 ± 0.1	S ± 0.2
D1	7.3mm	4.3mm	1.4mm	2.4mm	1.3mm
D6			1.9mm		
D7			2.7mm		
D8			2.9mm		



Cross Reference

- > A700 (Kemet)
- > PSL (NEC)
- > EEFCD, EEFCX, EEFLL (Panasonic)

We will help you to cross your parts! Just send us your requirements and we will help you to find the appropriate flat chip aluminum capacitor.

How to Order—Part Numbering

NPC 101 M 6.3 D7 X A TR F			
NPC	Series Name	Options	
101	Capacitance in μF, first two digits are significant third digit no. of zeros	10μF470μF	
м	Tolerance Code	M = 20%	
6.3	Voltage	2V, 2.5V, 4V,6.3V, 8V	
D7	Case Size	D1, D6, D7, D8	
x	ESR Specialty	X=Standard, Z = reduced ESR	
А	Reflow characteristic	optional A = +260°C Reflow	
TR	packaging	TR = Tape and Reel	
F	RohS rating	F= RohS conform	





NSP Series

- Ulta low ESR (4,5mR) at high frequency
- Special polymer solid electrolyte
- Low profile (1.1mm)
- Compatible with +260°C Reflow Soldering
- High Ripple Current

CAPABILITIES

Capacitance Range	1.2µF560µF
Capacitance Tolerance	20%
Voltage Ratings	2.0Vdc16Vdc
Ripple Current	up to 3,800mA
Case Size	"D" (EIA 7343)
Load Life	1000h



Case	L ± 0.4	W ± 0.3	Н	W1 ± 2.4	S±0.3
D2			1.8 ± 0.1mm	2.4mm	1.3mm
D3			2.8 ± 0.2mm		
D4	7.3mm	4.3mm	4.2 ± 0.1mm		
D5		1.1 ± 0.1mm			
D6			1.9 ± 0.2mm		



Cross Reference

- > A700 (Kemet)
- > PSL (NEC)
- > EEFCD, EEFFD (Panasonic)
- > EEFUD, EEFUE (Panasonic)

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How to Order—Part Numbering

NSP 101 M 12.5 D2 X A TR F			
NSP	Series Name		
101	Capacitance in μF, first two digits are significant third digit no. of zeros	2.2µF560µF	
м	Tolerance Code	M = 20%	
12.5	Voltage	2V, 2.5V, 4V,6.3V, 8V, 12.5V, 16V	
D2	Case Size	D2,D3, D4, D5 D6	
x	ESR Specialty	X=Standard, Z = reduced ESR	
А	Reflow characteristic	optional A = +260°C Reflow	
TR	packaging	TR = Tape and Reel	
F	RohS rating	F= RohS conform	





We find Solutions

Passive and electromechanical Solutions

Services



Logistic Concepts

CONTACT

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We are looking forward to hear from you!

