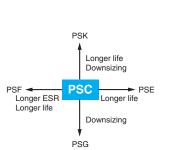
NPCAP™-PSCSeries

- Super low ESR, high ripple current capability
- Rated voltage range : 2.5 to 16Vdc
- Nominal capacitance range : 270 to 2,700µF
- Endurance : 15,000 hours at 105°C
- Suitable for DC-DC converters, voltage regulators and decoupling applications for computer motherboards
- Added 2.5V 820 μ F (ESR 5m Ω max.)
- Solvent resistant type (see PRECAUTIONS AND GUIDELINES)
- RoHS2 Compliant
- Halogen Free

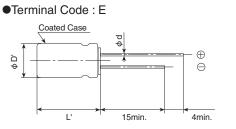


\$SPECIFICATIONS

Items	Characteristics								
Category Temperature Range	-55 to +105℃								
Rated Voltage Range	2.5 to 16V _{dc}								
Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)								
Leakage Current *Note	I=0.2CV or 500μA, whichever is greater. Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V₀c) (at 20°C after 2 minutes)								
Dissipation Factor (tan δ)	0.10 max. (at 20°C, 120Hz)								
Low Temperature Characteristics (Max.Impedance Ratio)	$Z(-25^{\circ}C)/Z(+20^{\circ}C) \leq 1.15$ $Z(-55^{\circ}C)/Z(+20^{\circ}C) \leq 1.25$ (at 100kHz)								
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for 15,000 at 105°C.						roltage is applied for 15,000 hours		
	Appearance	No signi	ficant dam	age					
	Capacitance change	≦±20%	of the init	tial value					
	D.F. (tan δ)	≦150%	of the initi	al specifie	d value				
	ESR	≦150%	of the initi	al specifie	d value				
	Leakage current	≦The in	itial specif	ied value					
Bias Humidity Test	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjecting them to DC voltage at 60°C, 90 to 95% RH for 1,000 hours.								
	Appearance	No signi	ficant dam	age					
	Capacitance change	$\leq \pm 20\%$ of the initial value							
	D.F. (tan δ)	\leq 150% of the initial specified value							
	ESR	\leq 150% of the initial specified value							
	Leakage current ≤The initial specified value								
Surge Voltage Test	tage Test The capacitors shall be subjected to 1,000 cycles each consisting of charge with the surge voltage specified at 105°C for 30 sec through a protective resistor(R=1kΩ) and discharge for 5 minutes 30 seconds.						pecified at 105°C for 30 seconds		
	Rated voltage (Vdc)	2.5	4.0	6.3	10	16]		
	Surge voltage (Vdc)	2.9	4.6	7.2	12	18			
	Appearance	No significant damage							
	Capacitance change	$\leq \pm 20\%$ of the initial value							
	D.F. (tan δ)	\leq 150% of the initial specified value							
	ESR ≦150% of the initial specified value								
	Leakage current	≦The initial specified value							
*Noto : If any doubt a	rises measure the leaka	ao ourron	t offer the	following	. valta aa	trootmont	4		

*Note : If any doubt arises, measure the leakage current after the following voltage treatment. Voltage treatment : DC rated voltage is applied to the capacitors for 120 minutes at 105°C.

DIMENSIONS [mm]



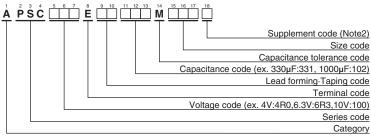
Size code	H08	HB5	JB5	JC5		
φ D	8.0	8.0	10.0	10.0		
φd	0.6	0.8(Note1)	0.8(Note1)	0.6		
F	3.5	3.5	5.0	5.0		
φ D '	φ D+0.5max.					
Ľ	L+1.0max. L+1.5max.					



Note1 : 0.6 for rated volt 16V.



◆PART NUMBERING SYSTEM



(Note2) PSC series, 2.5V820µF(ESR 5mΩ max.) has supplement code "J". Can case, terminal and terminal plating are the same as all others in PSC series.

Please refer to "Product code guide (conductive polymer type)"

♦STANDARD RATINGS

WV (Vdc)	Сар (µF)	Case size φ D×L(mm)	ESR (mΩ max./20℃, 100k to 300kHz)	Rated ripple current (mArms/105℃, 100kHz)	Part No.
	560	8×8	7	6,100	APSC2R5E 561MH08S
	820	8×8	5	6,100	APSC2R5E 821MH08J
	820	8×8	7	6,100	APSC2R5E B21MH08S
2.5	1,000	8×8	7	6,100	APSC2R5E 102MH08S
	1,000	8×11.5	7	6,100	APSC2R5E 102MHB5S
	1,500	8×11.5	7	6,100	APSC2R5E 152MHB5S
	2,700	10 × 11.5	8	5,560	APSC2R5E□□272MJB5S
	560	8×8	7	6,100	APSC4R0E 561MH08S
4	4 680 8×11.5	8×11.5	7	6,100	APSC4R0E□□681MHB5S
	1,000	10×11.5	6	6,640	APSC4R0E 102MJB5S
	470	8×8	8	5,700	APSC6R3E 471MH08S
6.3	560 8×8	8	5,700	APSC6R3E 561MH08S	
0.5	6.3 820 10×11.5		7	6,640	APSC6R3E□□821MJB5S
	1,500	10 × 11.5	10	5,560	APSC6R3E□□152MJB5S
10	390	8×11.5	9	5,650	APSC100E 391MHB5S
10	680	10 × 11.5	7	6,100	APSC100E 681MJB5S
	270	8×11.5	11	5,080	APSC160E 271MHB5S
16	330	10×11.5	10	6,100	APSC160E 331MJB5S
10	330	10 × 12.5	10	6,100	APSC160E 331MJC5S
	470	10 × 11.5	10	6,100	APSC160E 471MJB5S

Product specifications in this catalog are subject to change without notice. Request our product specifications before purchase and/or use. Please use our products based on the information contained in this catalog and product specifications.

 \Box \Box : Enter the appropriate lead forming or taping code.

♦RATED RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

Frequency(Hz)	120	1k	10k	50k	100k to 500k
Radial lead type	0.10	0.35	0.60	0.80	1.00

CHEMI-CON CONDUCTIVE POLYMER ALUMINUM SOLID CAPACITORS Product Guide

- Always read "Notes on Use" before using the product in order to enable you to use the product correctly and prevent any faults and accidents from occurring.
- Request the Product Specification on the product of NIPPON CHEMI-CON CORPORATION to refer to it as well as this brochure prior to the order of the products. Some specific notes on use of the ordered product may be described in the specifications.
- The products listed in this catalog are designed and manufactured for general electronics equipment use and are not intended for use in applications that can adversely affect human life; where the malfunction of equipment may cause damage to life or property. In addition, our products are not intended to be used in specific applications that may cause a major social impact. Please consult with us in advance of usage of our products in the following listed applications. ① Aerospace equipment ② Power generation equipment such as thermal power, nuclear power etc. ③ Medical equipment ④ Transport equipment (automobiles, trains, ships, etc.) ⑤ Transportation control equipment ⑥ Disaster prevention / crime prevention equipment ⑦ Highly publicized information processing equipment ⑧ Submarine equipment ⑨ Other applications that are not considered general-purpose applications.
- The circuits described as examples in this catalog and the "delivery specifications" are featured in order to show the operations and usage of our products, however, this fact does not guarantee that the circuits are available to function in your equipment systems. We are not in any case responsible for any failures or damage caused by the use of information contained herein. You should examine our products, of which the characteristics are described in the "delivery specifications" and other documents, and determine whether or not our products suit your requirements according to the specifications of your equipment systems. Therefore, you bear final responsibility regarding the use of our products.

Please make sure that you take appropriate safety measures such as use of redundant design and malfunction prevention measures in order to prevent fatal accidents and/or fires in the event any of our products malfunction.

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In addition, we have an established system with enhanced traceability, therefore we will limit the applicable lot items for any potential compensation.

Product specifications in this catalog are subject to change without notice. Request our product specifications before purchase and/or use. Please use our products based on the information contained in this catalog and product specifications.

Part Numbering System Part Numbering System (Appendix) Standardization Available Items by Manufacturing Locations Environmental Measures Technical Note Precautions and Guidelines Recommended Soldering Conditions Taping, Lead-preforming, Terminal and Packaging Options

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Chemi-Con:

APSC4R0ETD681MHB5SAPSC160ELL331MJC5SAPSC6R3ELL561MH08SAPSC2R5ELL102MHB5SAPSC2R5ELL152MHB5SAPSC4R0ELL681MHB5SAPSC6R3ETD471MH08SAPSC2R5ETD821MH08SAPSC2R5ELL561MH08SAPSC6R3ELL821MJB5SAPSC2R5EC3821MH08SAPSC2R5ELL272MJB5SAPSC6R3ETD152MJB5SAPSC2R5ELL821MH08SAPSC4R0ELL102MJB5SAPSC100ELL391MHB5SAPSC4R0ELL561MH08SAPSC160ELL271MHB5SAPSC160ELL471MJB5SAPSC100ELL681MJB5SAPSC6R3ELL471MH08SAPSC6R3ELL152MJB5SAPSC2R5ELL821MH08JAPSC160ETD471MJB5SAPSC2R5ELL102MH08SAPSC160ETD271MHB5SAPSC2R5ELL821MH08JAPSC160ETD471MJB5S