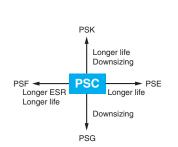
NPCAP™-PSCSeries

- Super low ESR, high ripple current capability
- Rated voltage range: 2.5 to 16Vdc
- O 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

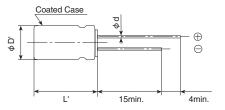
Items	Characteristics							
Category Temperature Range	-55 to +105°C							
Rated Voltage Range	2.5 to 16V _{dc}							
Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)							
Leakage Current *Note	I=0.2CV or 500μA, whichever is greater. Where, I : Max. leakage current (μA), C : Nominal capacitance (μF),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

*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]

●Terminal Code : E





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

Note1: 0.6 for rated volt 16V.

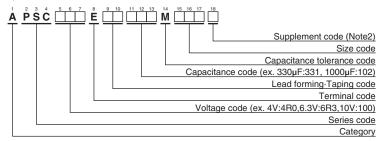








◆PART NUMBERING SYSTEM



(Note2) PSC series, $2.5V820\mu F(ESR 5m\Omega max.)$ 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 (V _{dc})	Cap (μF)	Case size φ D×L(mm)	ESR (m Ω max./20°C, 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□□821MH08S
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	680	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
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
16	330	10 × 12.5	10	6,100	APSC160E□□331MJC5S
	470	10 × 11.5	10	6,100	APSC160E□□471MJB5S

 \square : 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



- 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.
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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.

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