NPCAP <sup>™</sup> - <b>PSJ</b> Series	
Super low ESR, high ripple current capability	PSJ
ESR 4mΩ max. lineup	4
■Endurance : 2,000 to 5,000 hours at 105°C	Lower ESR
Solvent resistant type (see PRECAUTIONS AND GUIDELINES)	
RoHS2 Compliant	PSF

Halogen Free

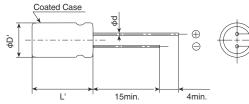
#### **\$**SPECIFICATIONS

Items	Characteristics				
Category Temperature Range	-55 to +105℃				
Rated Voltage Range	2.5V <sub>dc</sub>				
Capacitance Tolerance	±20% (M)	(at 20°C, 120Hz)			
Leakage Current *Note	500µA max.	(at 20°C after 2 minutes)			
Dissipation Factor $(\tan \delta)$	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 5,000 hours( $\phi$ 5.4×8L : 2,000 hours) at 105°C.				
	Appearance	No significant damage			
	Capacitance change	$\leq \pm 20\%$ 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			
Bias Humidity Test	The following specification 90 to 95% RH for 1,000 l	ns shall be satisfied when the capacitors are restored to 20°C after subjecting them to DC voltage at 60°C, nours.			
	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	$\leq$ 150% of the initial specified value			
	Leakage current	≦The initial specified value			
Surge Voltage Test		ubjected to 1,000 cycles each consisting of charge with the surge voltage specified at 105°C for 30 seconds stor(R=1k $\Omega$ ) and discharge for 5 minutes 30 seconds.			
	Rated voltage (V <sub>dc</sub> )	2.5			
	Surge voltage (Vdc)	2.9			
	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	$\leq$ 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



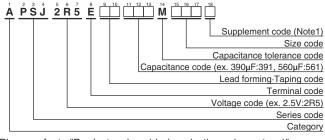
Size code	E08	F08	
φD	5.4	6.3	
φd	0.6	0.6	
F	2.0	2.5	
φD'	φD+0.5max.		
Ľ	L+1.5max.		

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



(Note1) : PSJ series,  $2.5V560\mu$ F (ESR  $4m\Omega$  max.) has supplement code "J". Terminal and terminal plating are the same as all other in PSJ series.

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

#### **♦STANDARD RATINGS**

WV (V <sub>dc</sub> )	Сар (µF)	Case size $\phi D \times L(mm)$	ESR (mΩ max./20℃, 300kHz)	Rated ripple current (mArms/105℃, 100kHz)	Part No.
	390	5.4×8	4	5,600	APSJ2R5E 391ME08S
0.5	470	5.4×8	4.5	5,200	APSJ2R5E 471ME08S
2.5	560	6.3×8	4	6,500	APSJ2R5E□□561MF08J
	560	6.3×8	4.5	6,200	APSJ2R5E 561MF08S

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 $\Box\,\Box$  : 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.

- We strongly recommend our customers to purchase Nippon Chemi-Con products only through our official sales channels. We assume no responsibility for any defects or damages caused by using products purchased from outside our official sales channel or of counterfeit goods. In addition, we will ask the customer to pay the investigation cost for products purchased outside our official sales channel.
- We reserve the right to discontinue production and delivery of products. We do not guarantee that all the products included in this catalog will be available in the future. The aforementioned does not apply in the case of individual agreements deviating from the foregoing for customer-specific products
- We continually strive to improve the quality and reliability of our products, but in any case that our product does not meet our published specifications, please stop using it promptly and contact us immediately. As for compensation for non-conforming goods delivered by Chemi-Con, we will limit it only to goods found in non-compliance of our published specifications. This may be accomplished by a no cost replacement of non-conforming individual products, a credit of the piece price paid per each individual non-conforming product, or in other ways deemed necessary.

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