



# Press Release

Nippon Chemi-Con Corporation  
October 5, 2021

## **Ceramic Varistors F Series Developed** Smaller size and higher current achieved

Nippon Chemi-Con has newly developed the F Series, a downsized and higher current version of the existing disc type ceramic varistors V Series.

In recent years, power supply boards for general purpose home appliances and inverter boards for industrial equipment are becoming smaller. These products contain many of our ceramic varistors and we have been receiving requests for downsized products while maintaining surge performance.

To meet these demands, we achieved downsizing of the V Series through optimization of the element composition and internal structure. The F Series has a maximum of approximately 30% higher surge current compared to same size products of the existing Series. Comparing products with the same surge performance, the mounting surface area of substrates can be reduced by up to 22%.

### **Comparison of Downsizing**

Existing size		New size	Comparison to existing
ø14/V Series	→	ø11/F Series	Approx. 13% downsized
ø20/V Series	→	ø14/F Series	Approx. 22% downsized

### **Main Specifications**

Size: ø11mm, ø14mm

Varistor voltage range: 200V to 1,100V

Operating temperature range: -40°C to +85°C

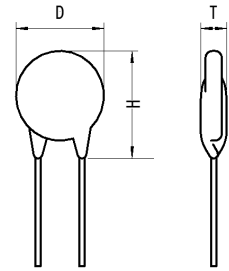
Endurance: Guarantees 1,000 hours at 85°C, maximum rated voltage applied

Guaranteed surge resistance per surge:

Case size	Varistor voltage	
	200V to 560V	620V to 1,100V
ø11	6,000A	5,000A
ø14	10,000A	7,500A

Case size:

Case size	D	T	H
ø11	14.0mm Max.	5.2mm to 10.1mm	18.0mm Max.
ø14	17.5mm Max.		20.5mm Max



### **International Safety Standards**

We plan to achieve UL, VDE and CQC certification.

### **Samples**

Scheduled to be available from January 2022

### **Mass Production**

Scheduled to start in June 2022

### **Production Site**

Chemi-Con Yamagata Corp. Nagai Plant

### **Product Appearance**

