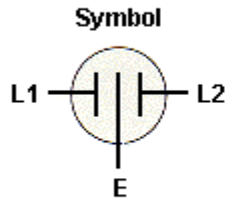
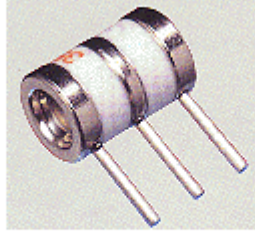


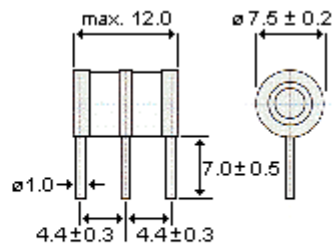
# 3YVJ Series - Three Electrode



3J Series (UL Approved)



Model J1 Fig. 1



Electrodes : Nickel Plated  
 Leads : Tin Plated  
 Unit Weight : 2.8g  
 Units : mm

## Note :

1. Insulation Resistance shall be measured with the following voltages for each nominal DC Sparkover Voltage.

Nominal DC Sparkover Voltage	Measuring Voltage
90 ~ 145V	DC 50V
200 ~ 550V	DC 100V

2. DC Holdover Voltage shall be measured in accordance with the ITU-T K.12, Test Circuit or the IEEE C62.31-1987 Test Circuit.

3. Recognized under **UL497B, File Number E 140906**

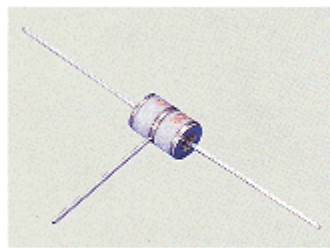
4. Fail-Safe operation time : at 25°C for Fail-Safe Model F2. (Other Fail-Safe models are available)

### L1 + L2 - E

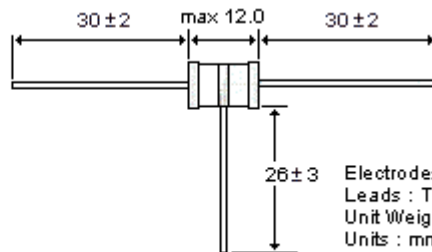
1A + 1A : $\leq 15$ sec	5A + 5A : $\leq 7$ sec
3A + 3A : $\leq 10$ sec	10A + 10A : $\leq 5$ sec

5. Measured with impulse waveform : 10/1000 $\mu$ s, 1000A

6. Lead spacing (pitch) of 4.7mm and 5.0mm are available by request.



Model B Fig. 2

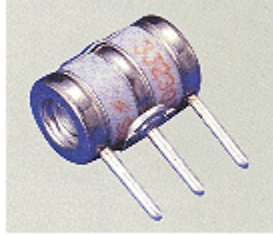


Electrodes : Nickel Plated  
 Leads : Tin Plated  
 Unit Weight : 2.8g  
 Units : mm

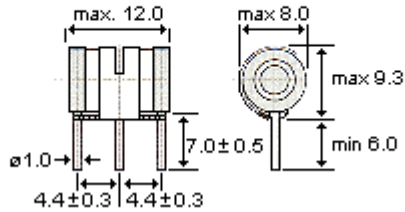
Part Number	Standard Part Number	Lead Configuration	See Fig.	Symbol	3YVJ-90J1	3YVJ-145J1	N/A	3YVJ-230J1	N/A
					3YVJ-90J1F2	3YVJ-145J1F2	3YVJ-200J1F2	3YVJ-230J1F2	3YVJ-250J1F2
UL Approved Part Number (See Note 3)	Lead Configuration : B	See Fig. 2			3YVJ-90B	3YVJ-145B	N/A	3YVJ-230B	3YVJ-250B
	Lead Configuration : J1	See Fig. 1			3J-1B	3J-2B	N/A	3J-3B	3J-4B
	Lead Configuration : J1	See Fig. 1			3J-1J1	3J-2J1	N/A	3J-3J1	3J-4J1
DC Sparkover Voltage (L1-E)(L2-E)		100V/S			90V $\pm 20\%$	145V $\pm 20\%$	200V $\pm 25\%$	230V $\pm 20\%$	250V $\pm 20\%$
Impulse Sparkover Voltage (L1-E)(L2-E)		100V/ $\mu$ s			$\leq 700$ V	$\leq 700$ V	$\leq 500$ V	$\leq 500$ V	$\leq 500$ V
		1kV/ $\mu$ s			$\leq 850$ V	$\leq 850$ V	$\leq 650$ V	$\leq 650$ V	$\leq 650$ V
Insulation Resistance		See Note 1			$\geq 10,000$ Mohm	$\geq 10,000$ Mohm	$\geq 10,000$ Mohm	$\geq 10,000$ Mohm	$\geq 10,000$ Mohm
Capacitance		1MHz			$\leq 3.0$ pF	$\leq 3.0$ pF	$\leq 3.0$ pF	$\leq 3.0$ pF	$\leq 3.0$ pF
DC Holdover Voltage		See Note 2			$\leq 52$ V	$\leq 52$ V	$\leq 135$ V	$\leq 135$ V	$\leq 135$ V
Impulse Life (L1 + L2-E)		10/1000 $\mu$ s, 400A			300 times	300 times	300 times	300 times	300 times
Impulse Discharge Current, 8/20 $\mu$ s (L1 + L2-E)		Single			20kA	20kA	20kA	20kA	20kA
		Repeat 10 times (5 Times - each polarity)			10kA	10kA	10kA	10kA	10kA
AC Discharge Current, 50Hz (L1 + L2-E)		Single, (9 Cycles)			130A	130A	130A	130A	130A
		Repeat 10 times (1 second)			10A	10A	10A	10A	10A

# 3YVJ Series - Three Electrode

3J Series (UL Approved)



Fail-Safe Model J1F2 Fig. 3



Electrodes : Nickel Plated  
Leads : Tin Plated  
Unit Weight : 2.8g  
Units : mm

## Note :

1. Insulation Resistance shall be measured with the following voltages for each nominal DC Sparkover Voltage.

Nominal DC Sparkover Voltage	Measuring Voltage
90 ~ 145V	DC 50V
200 ~ 550V	DC 100V

2. DC Holdover Voltage shall be measured in accordance with the ITU-T K.12, Test Circuit or the IEEE C62.31-1987 Test Circuit.

3. Recognized under **UL497B, File Number E 140906**

4. Fail-Safe operation time : at 25°C for Fail-Safe Model F2. (Other Fail-Safe models are available)

### L1 + L2 - E

1A + 1A : ≤ 15 sec    5A + 5A : ≤ 7 sec

3A + 3A : ≤ 10 sec    10A + 10A : ≤ 5 sec

5. Measured with impulse waveform : 10/1000µs, 1000A

6. Lead spacing (pitch) of 4.7mm and 5.0mm are available by request.

Part Number	Standard Part Number	Lead Configuration : <b>J1</b>	See Fig. 1		<b>3YVJ-260J1</b>	<b>3YVJ-300J1</b>	<b>3YVJ-350J1</b>	<b>3YVJ-400J1</b>	<b>3YVJ-550J1</b>
		Fail-Safe Model : <b>J1F2</b>	See Fig. 3	With Fail-Safe (See Note 4)	<b>3YVJ-260J1F2</b>	<b>3YVJ-300J1F2</b>	<b>3YVJ-350J1F2</b>	<b>3YVJ-400J1F2</b>	<b>3YVJ-550J1F2</b>
UL Approved Part Number (See Note 3)	Lead Configuration : <b>B</b>	See Fig. 2		<b>3YVJ-2690B</b>	<b>3YVJ-300B</b>	<b>3YVJ-350B</b>	<b>3YVJ-400B</b>	N/A	
	Lead Configuration : <b>J1</b>	See Fig. 1		N/A	<b>3J-5J1</b>	<b>3J-6J1</b>	<b>3J-7J1</b>	N/A	
DC Sparkover Voltage (L1-E)(L2-E)		100V/S	260V ± 20%	300V ± 20%	350V ± 20%	400V ± 20%	550V ± 20%		
Impulse Sparkover Voltage (L1-E)(L2-E)		100V/µs	≤ 500V	≤ 600V	≤ 600V	≤ 700V	≤ 850V		
		1kV/µs	≤ 650V	≤ 750V	≤ 750V	≤ 850V	≤ 1,000V		
Insulation Resistance		See Note 1	≥ 10,000Mohm	≥ 10,000Mohm	≥ 10,000Mohm	≥ 10,000Mohm	≥ 10,000Mohm		
Capacitance		1MHz	≤ 3.0pF	≤ 3.0pF	≤ 3.0pF	≤ 3.0pF	≤ 3.0pF		
DC Holdover Voltage		See Note 2	≤ 135V	≤ 135V	≤ 150V	≤ 150V	≤ 150V		
Impulse Life (L1 + L2-E)		10/1000µs, 400A	300 times	300 times	300 times	400 times See Note 5	300 times		
Impulse Discharge Current, 8/20µs (L1 + L2-E)		Single	20kA	20kA	20kA	20kA	20kA		
		Repeat 10 times (5 Times - each polarity)	10kA	10kA	10kA	10kA	10kA		
AC Discharge Current, 50Hz (L1 + L2-E)		Single, (9 Cycles)	130A	130A	130A	130A	130A		
		Repeat 10 times (1 second)	10A	10A	10A	10A	10A		