

Dear customers,

Notification of complete supply change to lead-free products

We would like to thank you very much for your patronage of our products.
Now we would like to notify you that we would completely change to supply you lead-free products about all chip tantalum capacitors from February 2003. We have already notified you of the production start of lead-free products in January 10, 2002 and have been shipping the lead-free products to a part of customers. The shipping quantity of lead-free products (E/SV series) goes up to four hundred million pieces and have no complains from the customers.
Therefore, please review the details of change below and consent to our change.
We appreciate your kindly understanding and cooperation in advance.

1. Detail Description

NEC TOKIN will change all the terminal of chip tantalum capacitor to lead free from January 2003 production lots. And the applicable products and the part number ("P/N") are as follows.

1) Applicable products and new P/N

< Conventional >	< New >
a) R series and SV/S series	E/SV series
b) SV/Z series and PS/L series	No change

2) Product Information

- Please refer product catalog to recognize P/N of E/SV series. The outline of comparison between R series, SV/S series and E/SV series are shown in attached "Table 1".
- Please refer attached "Figure 1" to recognize tape & reel and taping label.
- You do not need to change any condition of conventional surface mount conditions, such as solder paste or reflow temperature when you use lead-free type capacitors.

2. Requirements

1) Change schedule

Since we plan to ship new lead-free products from **February 2003, please place the order by new P/N mentioned above 1.2) in advance.**

2) Inquiry

We are now going to prepare the above change on schedule with your consent. Please contact us nearby us if you have any problem or Inconvenience.

3. Others

- NEC TOKIN will not change to lead-free type of SV/F series, SV/H series and dip type capacitors.
- There are no changes in shipping appearance.

Yours sincerely,

Hajime Kimura
General Manager
Sales Promotion Division
Energy Devices Operations Unit

Table 1 <Comparison between R series and E/SV series>

(1) Case code

Bulk		Tape and Reel	
R series	E/SV series	R series	E/SV series
NR <u>U</u> ***M04	ESV <u>A2</u> 0G***M	NRU***M04 <u>R8</u>	TEESVA20G***M <u>8R</u>
NR <u>D</u> ***M04	ESV <u>D0</u> G***M	NRD***M04 <u>R12</u>	ESVD0G***M <u>12R</u>

U	A2
A	A
W	B3
S	B2
B	B
C	C
T	D2
D	D

R8	8R
R12	12R

(2) Rated Voltage

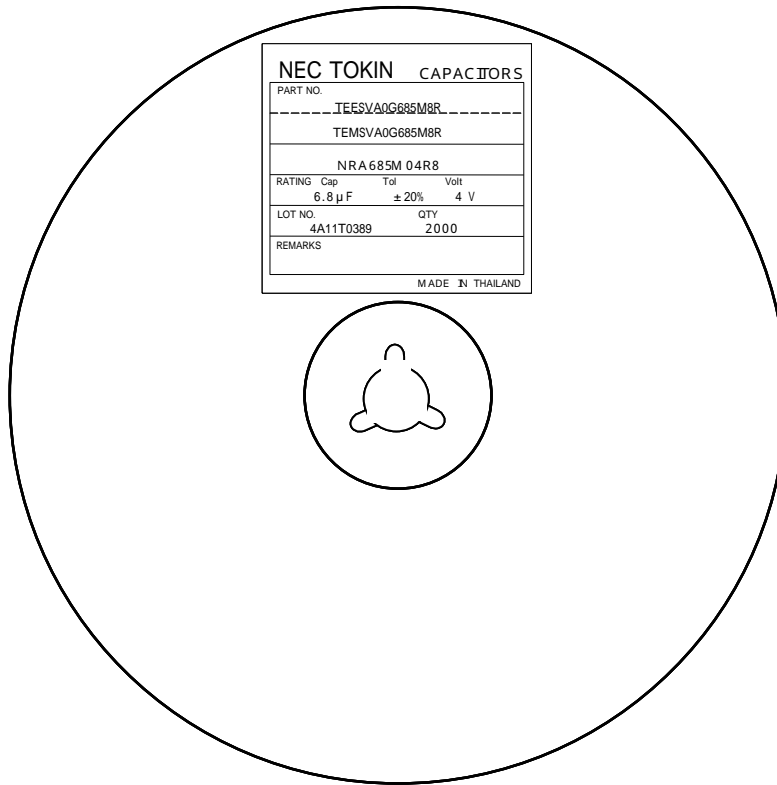
R series	E/SV series
NRA***M <u>02</u>	ESVA <u>0E</u> ***M

02	0E	2.5V
04	0G	4V
06	0J	6.3V
10	1A	10V
16	1C	16V
20	1D	20V
25	1E	25V
35	1V	35V
50	1H	50V

Table 2 Comparison between SV/S series and E/SV series

Bulk		Tape and Reel	
SV/S series	E/SV series	R series	E/SV series
<u>SVS</u> J0G***M	<u>ESV</u> J0G***M	TE <u>SVS</u> J0G***M8R	TE <u>ESV</u> J0G***M8R

Figure 1 < Drawing of Reel & Tape and taping label >



NEC TOKIN CAPACITORS			
PART NO. TEESVA0G685M8R			
TEMSVA0G685M8R			
NRA685M04R8			
RATING	Cap	Tol	Volt
	6.8 μF	± 20%	4 V
LOT NO.	QTY		
35924A	2000		
REMARKS			
MADE IN THAILAND			