

SUBJECT: V-TG series Surface Mount Type Aluminum Electrolytic Capacitors  
Non-RoHS EEV-TG parts (10mm diameter and under, suffix P only)

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Details: V-TG series Non-RoHS Surface Mount Type Aluminum Electrolytic Capacitors are **NOT RECOMMENDED FOR NEW DESIGN**, in compliance with Restriction of Hazardous Substances (RoHS) directive.

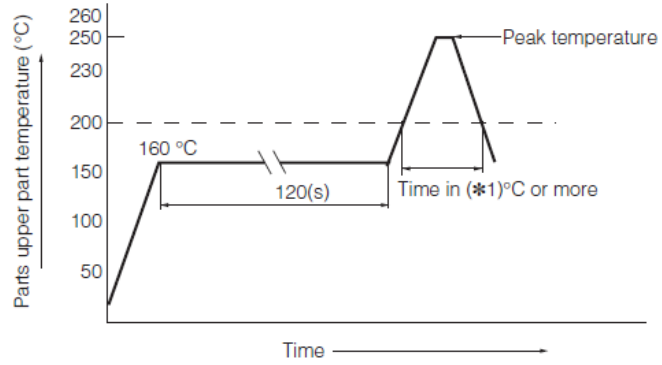
Please refer to the attached list of specific part numbers affected (10mm diameter and under) and their recommended replacements.

V-TG series

W.V. (V)	Cap (uF)	Case size	Part No.	Reflow	Part No.	Reflow
			RoHS: not compliant		RoHS: compliant	
10	100	E	EEV-TG1A101P	13	EEE-TG1A101P	2
10	220	E	EEV-TG1A221UP	13	EEE-TG1A221UP	2
10	220	F	EEV-TG1A221P	13	EEE-TG1A221P	2
10	330	F	EEV-TG1A331UP	13	EEE-TG1A331UP	2
10	330	G	EEV-TG1A331P	13	EEE-TG1A331P	2
10	470	G	EEV-TG1A471UP	13	EEE-TG1A471UP	2
10	1000	H13			EEV-TG1A102Q	3
10	1500	H13			EEV-TG1A152UQ	3
10	2200	J16			EEV-TG1A222M	3
10	3300	J16			EEV-TG1A332UM	3
10	3300	K16			EEV-TG1A332M	3
10	4700	K16			EEV-TG1A472M	3
16	100	F	EEV-TG1C101P	13	EEE-TG1C101P	2
16	220	F	EEV-TG1C221UP	13	EEE-TG1C221UP	2
16	220	G	EEV-TG1C221P	13	EEE-TG1C221P	2
16	330	G	EEV-TG1C331UP	13	EEE-TG1C331UP	2
16	330	H13			EEV-TG1C331Q	3
16	470	H13			EEV-TG1C471Q	3
16	680	H13			EEV-TG1C681Q	3
16	1000	H13			EEV-TG1C102UQ	3
16	1000	J16			EEV-TG1C102M	3
16	2200	J16			EEV-TG1C222UM	3
16	2200	K16			EEV-TG1C222M	3
16	3300	K16			EEV-TG1C332M	3
25	47	E	EEV-TG1E470P	13	EEE-TG1E470P	2
25	100	E	EEV-TG1E101UP	13	EEE-TG1E101UP	2
25	100	F	EEV-TG1E101P	13	EEE-TG1E101P	2
25	220	F	EEV-TG1E221UP	13	EEE-TG1E221UP	2
25	220	G	EEV-TG1E221P	13	EEE-TG1E221P	2
25	330	G	EEV-TG1E331UP	13	EEE-TG1E331UP	2
25	330	H13			EEV-TG1E331Q	3
25	470	H13			EEV-TG1E471Q	3
25	680	H13			EEV-TG1E681UQ	3
25	680	J16			EEV-TG1E681M	3
25	1000	J16			EEV-TG1E102UM	3
25	1000	K16			EEV-TG1E102M	3
25	2200	K16			EEV-TG1E222M	3
35	33	E	EEV-TG1V330P	13	EEE-TG1V330P	2
35	47	E	EEV-TG1V470UP	13	EEE-TG1V470UP	2
35	47	F	EEV-TG1V470P	13	EEE-TG1V470P	2
35	100	F	EEV-TG1V101UP	13	EEE-TG1V101UP	2
35	100	G	EEV-TG1V101P	13	EEE-TG1V101P	2
35	220	G	EEV-TG1V221UP	13	EEE-TG1V221UP	2
35	470	H13			EEV-TG1V471UQ	3
35	470	J16			EEV-TG1V471M	3

35	680	J16			EEV-TG1V681UM	3
35	680	K16			EEV-TG1V681M	3
35	1000	K16			EEV-TG1V102M	3
50	10	E	EEV-TG1H100P	13	EEE-TG1H100P	2
50	22	E	EEV-TG1H220P	13	EEE-TG1H220P	2
50	33	E	EEV-TG1H330UP	13	EEE-TG1H330UP	2
50	33	F	EEV-TG1H330P	13	EEE-TG1H330P	2
50	47	F	EEV-TG1H470UP	13	EEE-TG1H470UP	2
50	47	G	EEV-TG1H470P	13	EEE-TG1H470P	2
50	100	G	EEV-TG1H101UP	13	EEE-TG1H101UP	2
50	220	H13			EEV-TG1H221Q	3
50	330	H13			EEV-TG1H331Q	3
50	470	J16			EEV-TG1H471M	3
50	680	J16			EEV-TG1H681UM	3
50	680	K16			EEV-TG1H681M	3
50	1000	K16			EEV-TG1H102M	3
63	10	E	EEV-TG1J100P	13	EEE-TG1J100P	2
63	22	F	EEV-TG1J220P	13	EEE-TG1J220P	2
63	33	F	EEV-TG1J330UP	13	EEE-TG1J330UP	2
63	33	G	EEV-TG1J330P	13	EEE-TG1J330P	2
63	47	F	EEV-TG1J470UP	13	EEE-TG1J470UP	2
63	47	G	EEV-TG1J470P	13	EEE-TG1J470P	2
63	100	G	EEV-TG1J101UP	13	EEE-TG1J101UP	2
63	100	H13			EEV-TG1J101Q	3
63	220	H13			EEV-TG1J221Q	3
63	330	J16			EEV-TG1J331M	3
63	470	J16			EEV-TG1J471M	3
80	10	F	EEV-TG1K100P	13	EEE-TG1K100P	2
80	22	F	EEV-TG1K220UP	13	EEE-TG1K220UP	2
80	22	G	EEV-TG1K220P	13	EEE-TG1K220P	2
80	33	F	EEV-TG1K330UP	13	EEE-TG1K330UP	2
80	33	G	EEV-TG1K330P	13	EEE-TG1K330P	2
80	47	G	EEV-TG1K470UP	13	EEE-TG1K470UP	2
80	47	H13			EEV-TG1K470Q	3
80	100	H13			EEV-TG1K101UQ	3
80	100	J16			EEV-TG1K101M	3
80	220	J16			EEV-TG1K221UM	3
80	220	K16			EEV-TG1K221M	3
80	330	J16			EEV-TG1K331UM	3
80	330	K16			EEV-TG1K331M	3
80	470	K16			EEV-TG1K471M	3
100	10	F	EEV-TG2A100P	13	EEE-TG2A100P	2
100	22	F	EEV-TG2A220UP	13	EEE-TG2A220UP	2
100	22	G	EEV-TG2A220P	13	EEE-TG2A220P	2
100	33	G	EEV-TG2A330P	13	EEE-TG2A330P	2
100	47	H13			EEV-TG2A470Q	3
100	100	J16			EEV-TG2A101M	3
100	220	K16			EEV-TG2A221M	3
100	330	K16			EEV-TG2A331M	3

- Reflow guaranteed condition
- RoHS compliant



**Reflow condition**

Reflow	Pre-fix	Suffix	Case Diameter	RoHS	Terminal Finish	Peak temp Deg C	Time of actual peak or near temp.		Time in (*1) degC or more	Time above 200degC	Reflow Freq
2	EEE-	P	8mm to 10mm	Yes	Sn-Bi	235degC	235degC	5 seconds	200degC	60 seconds	Once
3	EEV-	Q	12.5mm	Yes	Sn	230degC			200degC	20 seconds	Once
3	EEV-	M	16mm to 18mm	Yes	Sn	230degC			200degC	20 seconds	Once
13	ECE-V	P	8mm to 10mm	No	Sn-Pb	230degC			200degC	20 seconds	Once
13	EEV-	P	8mm to 10mm	No	Sn-Pb	230degC			200degC	20 seconds	Once