

# PRODUCT CHANGE NOTICE

1. TITLE PACKAGE DIMENSIONS UPDATES TO SMD # 5962-11213 UT01VS50L, UT01VS50D, UT01VS33L, UT01VS33D 1-CHANNEL VOLTAGE SUPERVISORS		2. DOCUMENT NUMBER SPO-2023-PCN-002	
		3. DATE (Year, Month, Date) 2023 Oct 04	
4. MANUFACTURER NAME AND ADDRESS FRONTGRADE TECHNOLOGIES 4350 CENTENNIAL BLVD COLORADO SPRINGS, CLORADOO 80907-3486		5. MANUFACTURER POINT OF CONTACT NAME Bruce Massey	
		6. MANUFACTURER POINT OF CONTACT TELEPHONE 719-594-8466	
		7. MANUFACTURER POINT OF CONTACT EMAIL Bruce.Massey@frontgrade.com	
8. CAGE CODE 65342	9. EFFECTIVE DATE 2023 October 04	10. PRODUCT IDENTIFICATION CODE YB12, YB13, YB15, YB16	11. BASE PART UT01VS50L, UT01VS50D, UT01VS33L, UT01VS33D
12. BLANK		13. SMD NUMBER 5962-11213	14. DEVICE TYPE DESIGNATOR 13, 14, 15, 16
		15. RHA LEVELS R, F	16. QML LEVEL Q, V
		17. NON QML LEVEL Prototype, HiRel	18. GIDEP GB4-C-24-0001

## 19. PRODUCT CHANGE

It was recently brought to the attention of Frontgrade that the SMD package dimensions differed in some instances from the Data Sheet (DS) package dimensions. After a review, it has been determined that these discrepancies are due to:

- A) The SMD package dimensions range is, in some cases, wider than for the individual Frontgrade product DS values in order to accommodate the slightly differing package dimensions of the similar Renesas products also included in the shared SMD.
- B) In addition to (A), above, some SMD package dimension values still needed to be adjusted (either smaller or larger) for consistency between the Frontgrade product DS values and the SMD package dimensions. See FIGURE 1, from the SMD, below.

The Frontgrade 1-Channel Voltage Supervisor products affected by this PCN are listed above in Sections 1, 11, 14, above, and in Section 19, Table 1, below. These four products share a common 8-lead, ceramic flatpack (CFP) package, and so this PCN applies to all four products.

Case X

Symbol	Inches		Millimeter s		Notes
	Min	Max	Min	Max	
A	<del>0.070</del> 0.046	0.115	1.18	2.92	
b	0.015	0.022	0.38	0.56	
b1	<del>0.015</del> 0.012	0.019	<del>0.38</del> 0.30	0.48	
c	0.004	0.009	0.10	0.23	
c1	<del>0.004</del> 0.001	0.007	<del>0.10</del> 0.02	0.18	
D	0.245	0.265	6.22	6.73	4
E	0.245	0.265	6.22	6.73	
E1	---	0.280	---	7.11	4
E2	0.170	0.180	4.32	<del>4.57</del> 4.58	
E3	0.030	---	0.76	---	8
e	0.050 BSC		1.27 BSC		
k	---	---	---	---	3
L	0.250	0.370	6.35	9.40	
Q	<del>0.026</del> 0.022	0.045	<del>0.066</del> 0.56	1.14	9
S1	0.005	---	0.13	---	7
M	---	0.0015	---	0.04	
N	8		8		

FIGURE 1. Case outline – Continued.

SMD 5962-11213 Changes:

<https://landandmaritimeapps.dla.mil/Downloads/MilSpec/Smd/11213.pdf>

MICROCIRCUIT, LINEAR, CMOS, MICROPROCESSOR SUPERVISORY CIRCUIT, MONOLITHIC SILICON

UT01VS50L, UT01VS50D, UT01VS33L, UT01VS33D; Device Types 13, 14, 15, 16

SHEET 19: FIGURE 1. Case outline - Continued. Case X - Package Dimensions table

DS: No changes. Reference only.

<https://frontgrade.com/sites/default/files/documents/Datasheet-UT01VS50L.pdf>

Voltage Supervisor UT01VS50L Data Sheet

p.11, Figure 9. 8-pin Dual-In-Line Flatpack

<https://frontgrade.com/sites/default/files/documents/Datasheet-UT01VS50D.pdf>

Voltage Supervisor UT01VS50D Data Sheet

p.11, Figure 9. 8-pin Dual-In-Line Flatpack

<https://frontgrade.com/sites/default/files/documents/Datasheet-UT01VS33L.pdf>

Voltage Supervisor UT01VS33L Data Sheet

p.12, Figure 9. 8-pin Dual-In-Line Flatpack

<https://frontgrade.com/sites/default/files/documents/Datasheet-UT01VS33D.pdf>

Voltage Supervisor UT01VS33D Data Sheet

p.11, Figure 9. 8-pin Dual-In-Line Flatpack

Table 1. Affected Part Numbers Under This PCN

Description	SMD Number	CAES Part Number	CAES PIC Number
UT01VS50L UT01VS50D UT01VS33L UT01VS33D 1-Ch. Voltage Supervisors	5962R1121313QXC	UT01VS50LRXQC	YB12
	5962F1121313QXC	UT01VS50LFXQC	YB12
	5962R1121314QXC	UT01VS50DRXQC	YB13
	5962F1121314QXC	UT01VS50DFXQC	YB13
	5962R1121315QXC	UT01VS33LRXQC	YB15
	5962F1121315QXC	UT01VS33LFXQC	YB15
	5962R1121316QXC	UT01VS33DRXQC	YB16
	5962F1121316QXC	UT01VS33DFXQC	YB16
	5962R1121313VXC	UT01VS50LRXVC	YB12
	5962F1121313VXC	UT01VS50LFXVC	YB12
	5962R1121314VXC	UT01VS50DRXVC	YB13
	5962F1121314VXC	UT01VS50DFXVC	YB13
	5962R1121315VXC	UT01VS33LRXVC	YB15
	5962F1121315VXC	UT01VS33LFXVC	YB15
	5962R1121316VXC	UT01VS33DRXVC	YB16
	5962F1121316VXC	UT01VS33DFXVC	YB16

20. DISPOSITIONARY RECOMMENDATION:	CHECK & <input type="checkbox"/> USE AS IS	CONTACT <input type="checkbox"/> MANUFACTURER	REMOVE & <input type="checkbox"/> REPLACE	CORRECT & <input checked="" type="checkbox"/> USE AS SPECIFIED
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