VOLTAGE MULTIPLIERS INC.

(P) 559.651.1402
(F) 559.651.0740
www.VoltageMultipliers.com

Approval Certificate for RoHS Directive	
RoHS 3. Directive (EU) 2015/863/ RoHS2 Directive 2011/65/EU (RoHS Recast) on the restriction of the use of certain hazardous substances in electrical and electronic equipment	
Supplier	Voltage Multipliers Inc.
Manufacturing Plant	8711 W. Roosevelt Ave, Visalia, CA USA 93291

The following products in Table I are RoHS compliant via Exemption 7 -

- 7 (C-I) . components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound

Table I	Product Part Numbers		
1N5415 - 1N5420	M25FG - M160FG	SPJ100 F - SPJ450F	Z20FF3 - Z100FF3
	M25SG - M160SG	SPJ100S - SPJ450S	
1N5550 - 1N5554			Z20FF5 - Z100FF5
	MR (E-Zorb) – All devices	SXF6521 - SXF6525	
1N5614 - 1N6523		SXF20FF3 - SXF50FF3	Z25UFG - Z100UFG
	OC025	X20FF3 - X150FF3	Z25FG - Z100FG
1N6513 - 1N6535	OC100G		Z25SG - Z100SG
	OC100HG	X20FF5 - X150FF5	
1N6612 - 1N6619	OC150G		Z150UFG
	OC150HG	X25UFG - X100UFG	Z150FG
1N6836 - 1N6839		X150UFG - X200UFG	Z150SG
	OZ100SG		
FP25F – FP150F	OZ150SG	X25FG - X100FG	ZR (E-Zorb) – All devices
FP25S – FP200S	OZ160SG	X150FG - X200FG	
FP175UF – FP250UF			
	SMF6529 - SMF6533	X25SG - X100SG	
M50FF3 - M160FF3	SMF50FF3	X150SG - X200SG	
M50FF5 - M160FF5	SMF150		
		XR (E-Zorb) – All devices	
M25UFG - M160UFG	SP25F – SP250F		
	SP25UF – SP250UF		
	SP50S – SP300S		

Based on information from our suppliers, the substances listed below, which are restricted by the 2000/53/EC and 202/95/EC directives, are not included or used in a solid form as a chemical substance or contained as a component of the above mentioned products. The substances may be present at the extremely low and normal background levels found in the industrialized world.

Appearance in Table I does not guarantee product availability.

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Heavy Metals Cadmium and Cadmium compounds Mercury and Mercury compounds Hexavalent chromium compounds Lead (Pb): See exemption and Exception: Military Devices	**Brominated organic compounds** Polybrominated biphenyles (PBB) Polybrominated diphenyl ethers (PBDE) **Bis(2-Ethylhexyl) phthalate (DEHP): max 0.1%;** **Benzyl butyl phthalate (BBP): max 0.1%;** **Dibutyl phthalate (DBP): max 0.1%;** **Diisobutyl phthalate (DIBP): max 0.1%.**

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The following products in Table II are RoHS compliant via Exemption 7 -

- 7a. Lead in high melting temperature type solders (i.e. lead based solder alloys containing 85% by weight or more lead).
- 7 (C-I) . components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound
-

Approval: Based on information from our suppliers, these devices may contain high temperature/high Pb content performs or solder used in the manufacturing process, and/or contain Pb in the glass passivation.

Table II	Product Part Numbers		
Z25UF - Z100UF[1] Z25F - Z100F[1] Z25S - Z100S[1]	K25UF - K100UF[1] K25F - K100F[1] K25S - K100S[1]	MD90FF18 - MD90FF25[2] MD90FF18J - MD90FF25J[2] MD90U18 - MD90U25[2] MD90U18J - MD90U25J[2]	SM6525[3] SM6527[3] SM6533[3] SM6535[3]

[1] - Exemption 7a
[2] - Exemption 7c
[3] - Exemption 7a and 7c

The substances listed below, which are restricted by the 2000/53/EC and 202/95/EC directives, are not included or used in a solid form as a chemical substance or contained as a component of the above mentioned products. The substances may be present at the extremely low and normal background levels found in the industrialized world.

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Appearance in Table II does not guarantee product availability.

Heavy Metals	**Brominated organic compounds**
Cadmium and Cadmium compounds Mercury and Mercury compounds Hexavalent chromium compounds Lead (Pb): See exemption and Exception: Military Devices	Polybrominated biphenyles (PBB) Polybrominated diphenyl ethers (PBDE) Bis(2-Ethylhexyl) phthalate (DEHP): max 0.1%; Benzyl butyl phthalate (BBP): max 0.1%; Dibutyl phthalate (DBP): max 0.1%; Diisobutyl phthalate (DIBP): max 0.1%.

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The following products in Table III are RoHS compliant via Exemption 7 -

- 7 (C-I) . components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound
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Approval: Based on information from our suppliers, the part numbers listed above are RoHS compliant.

Table III	**Product Part Numbers**		
HM202P08 – HM202P10 HM202N08 – HM202N10 HM402P08 – HM402P10 HM402N08 – HM402N10	MVM202PO6 MVM302P08 - MVM302P12	MVM402P10 - MVM422P10 PVM302P08 PVM302P10 PVM302P12	VM1446 - VM1448 VM1548 VM1566 VM1724 VM1725 VM1726 VM1738

The substances listed below, which are restricted by the 2000/53/EC and 202/95/EC directives, are not included or used in a solid form as a chemical substance or contained as a component of the above mentioned products. The substances may be present at the extremely low and normal background levels found in the industrialized world.

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Appearance in Table III does not guarantee product availability.

Heavy Metals	**Brominated organic compounds**
Cadmium and Cadmium compounds Mercury and Mercury compounds Hexavalent chromium compounds Lead (Pb): See exemption and Exception: Military Devices	Polybrominated biphenyles (PBB) Polybrominated diphenyl ethers (PBDE) **Bis(2-Ethylhexyl) phthalate (DEHP): max 0.1%;** **Benzyl butyl phthalate (BBP): max 0.1%;** **Dibutyl phthalate (DBP): max 0.1%;** **Diisobutyl phthalate (DIBP): max 0.1%.**

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The following products listed in Table IV are RoHS compliant via Exemption 7 -

- 7a. Lead in high melting temperature type solders (i.e. lead based solder alloys containing 85% by weight or more lead).

- 7 (C-I) . components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound
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They are **NOT** compliant due to the use of tin/lead solder on terminations, or the presence of a non-compliant component.

Table IV	**Product Part Numbers**		
1N5614U to 1N5622U 1N6513LL - 1N6517LL 1N6513U to 1N6533U OC100* OC250*	SRP18U	X06FF3L to X10FF3L X06FF5L to X10FF5L X02FL to X10FL X02SL to X10SL X02UL to X10UL X20FF3L to X50FF3L X20FF5L to X50FF5L	Z02FF3L to Z10FF3L Z02FF5L to Z10FF5L Z02FL to Z10FL Z02SL to Z10SL Z02UL to Z10UL Z02FLL - Z10FLL Z02SLL - Z10SLL Z02ULL to Z10ULL Z06FF3LL - Z10FF3LL

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			Z06FF5LL - Z10FF5LL Z20FF3LL - Z50FF3LL Z20FF5LL - Z50FF5LL

* Device uses a non-compliant component

The substances listed below, which are restricted by the 2000/53/EC and 202/95/EC directives, are not included or used in a solid form as a chemical substance or contained as a component of the above mentioned products. The substances may be present at the extremely low and normal background levels found in the industrialized world.

Appearance on this list does not guarantee product availability.

Heavy Metals	**Brominated organic compounds**
Cadmium and Cadmium compounds Mercury and Mercury compounds Hexavalent chromium compounds Lead (Pb): See exemption and Exception: Military Devices	Polybrominated biphenyles (PBB) Polybrominated diphenyl ethers (PBDE) **Bis(2-Ethylhexyl) phthalate (DEHP): max 0.1%;** **Benzyl butyl phthalate (BBP): max 0.1%;** **Dibutyl phthalate (DBP): max 0.1%;** **Diisobutyl phthalate (DIBP): max 0.1%.**

The following products listed in Table V are excluded from the RoHS regulation.

Table V	**Product Part Numbers**
JANTX1N6513US – JANTX1N6517US JANTXV1N6513US – JANTXV1N6517US JANTX1N6513FL – JANTX1N6517FL JANTXV1N6513FL – JANTXV1N6517FL	JANTX/JANTXV1N6513 – JANTX/JANTXV1N6535

Appearance on this list does not guarantee product availability.

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The information contained in this document has been carefully reviewed, and is believed to be accurate. However, no responsibility is assumed for inaccuracies.

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Updated by Karen Spano – February 2021

Karen Spano- Sales Administration Manager