

Approval Certificate for RoHS Directive	
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 -

- 7c. Lead in electronic ceramic parts (e.g. piezoelectronic devices).

Table I	Product Part Numbers		
1N5415 - 1N5420	M25FG - M160FG M25SG - M160SG	SPJ110 F - SPJ450F SPJ100S - SPJ450S	Z20FF3 - Z100FF3
1N5550 - 1N5554			Z20FF5 - Z100FF5
1N5614 - 1N6523	MR (E-Zorb) – All devices	SXF6521 - SXF6525 SXF20FF3 - SXF50FF3 X20FF3 - X150FF3	Z25UFG - Z100UFG Z25FG - Z100FG Z25SG - Z100SG
1N6513 - 1N6535	OC025 OC100G OC100HG OC150G	X20FF5 - X150FF5	
1N6612 - 1N6619			Z150UFG Z150FG Z150SG
1N6836 - 1N6839	OZ100SG OZ150SG OZ160SG	X25UFG - X100UFG X150UFG - X200UFG	
FP25F – FP150F FP25S – FP200S FP175UF – FP250UF		X25FG - X100FG X150FG - X200FG	ZR (E-Zorb) – All devices
M50FF3 - M160FF3 M50FF5 - M160FF5	SMF6529 - SMF6533 SMF50FF3 SXF50FF3	X25SG - X100SG X150SG - X200SG	
M25UFG - M160UFG	SP25F – SP250F SP25UF – SP250UF SP50S – SP300S	XR (E-Zorb) – All devices	

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.

Heavy Metals Cadmium and Cadmium compounds Mercury and Mercury compounds Hexavalent chromium compounds	Brominated organic compounds Polybrominated biphenyles (PBB) Polybrominated diphenyl ethers (PBDE)
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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).
- 7c. Lead in electronic ceramic parts (e.g. piezoelectronic devices).

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.

Appearance in Table II does not guarantee product availability.

Heavy Metals Cadmium and Cadmium compounds Mercury and Mercury compounds Hexavalent chromium compounds	Brominated organic compounds Polybrominated biphenyles (PBB) Polybrominated diphenyl ethers (PBDE)
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The following products in Table III are RoHS compliant via Exemption 7 -

- 7c. Lead in electronic ceramic parts (e.g. piezoelectronic devices).

Approval: Based on information from our suppliers, the part numbers listed above are RoHS compliant.

Table III	Product Part Numbers		
HM202P08 – HM202P10 HM202N08 – HM202N10	MVM202P06	MVM402P10 - MVM422P10	VM1446 - VM1448 VM1548 VM1566
HM402P08 – HM402P10 HM402N08 – HM402N10	MVM302P08 - MVM302P12	PVM302P08 PVM302P10 PVM302P12	

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 III does not guarantee product availability.

Heavy Metals Cadmium and Cadmium compounds Mercury and Mercury compounds Hexavalent chromium compounds	Brominated organic compounds Polybrominated biphenyles (PBB) Polybrominated diphenyl ethers (PBDE)
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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).
- 7c. Lead in electronic ceramic parts (e.g. piezoelectronic devices).

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	SRP18U	X06FF3L to X10FF3L X06FF5L to X10FF5L	Z02FF3L to Z10FF3L Z02FF5L to Z10FF5L
1N6513LL - 1N6517LL 1N6513U to 1N6533U		X02FL to X10FL X02SL to X10SL X02UL to X10UL	Z02FL to Z10FL Z02SL to Z10SL Z02UL to Z10UL
OC100*			
OC250*		X20FF3L to X50FF3L X20FF5L to X50FF5L	Z02FLL - Z10FLL Z02SLL - Z10SLL Z02ULL to Z10ULL Z06FF3LL - Z10FF3LL Z06FF5LL - Z10FF5LL Z20FF3LL - Z50FF3LL Z20FF5LL - Z50FF5LL

* Device uses a non-compliant component

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Appearance on this list does not guarantee product availability.

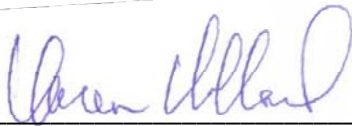
Heavy Metals Cadmium and Cadmium compounds Mercury and Mercury compounds Hexavalent chromium compounds	Brominated organic compounds Polybrominated biphenyles (PBB) Polybrominated diphenyl ethers (PBDE)
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The following products listed in Table V are excluded from the RoHS regulation.

Table V	Product Part Numbers
JANTX1N6513US – JANTX1N6517US JANTXV1N6513US – JANTXV1N6517US	JANTX/JANTXV1N6513 – JANTX/JANTXV1N6533

Appearance on this list does not guarantee product availability.

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



Karen Holland - Senior Engineer

Date: 23 October 2014