Declaration of Hazardous Substances

The RoHS EU directive bans the substances listed in Table 1. None of these substances are present in RoHS/Lead Free compliant Z-Communications, Inc. (ZCOMM) products. A RoHS compliant product is determined by the addition of the suffix, "-LF" after the standard part number, ex: "V585ME06-LF". Please contact Sales at sales@zcomm.com if your part number does not yet exhibit the "-LF" suffix.

Table 1. RoHS banned substances

#	Chemical Name	CAS No.	Application Example
1	PBB, PBDE; specified bromic fire retardants	1163-19-5 etc.	Flame retardant
2	Mercury & mercury compounds	7439-97-6 etc.	Battery, Measuring instrument, Metal alloy, Catalyst, Illuminating lamp
3	Cadmium & cadmium compounds	7440-43-9 etc.	Pigment, Battery, Metal alloy, Plating, Photograph, Polyvinyl chloride stabilizer, Liquid crystal, Compound semiconductor,
4	Lead and lead compounds	7439-92-1 etc.	Metal alloy, Electronic part, Pigment, Rubber vulcanization accelerator Paint, Solder
5	Hexavalent chromium compounds	1333-82-0 etc.	Corrosion prevention (chromate treatment), Oxidizing agent, Dye mordant, Pigment, Plating, Ink, Coloring agent

In addition to the RoHS directive other regulatory entities have determined that certain substances are hazardous to the environment. Z-COMM recognizes these regulations. Table 2 lists other hazardous substances that are NOT present in any Z-COMM standard or RoHS compliant product.

Table 2. Other banned substances

#	Chemical Name	CAS No.	Application Example
1	PCB; polychlorinated biphenyls	1336-36-3	Old style transform er, Insulating oil, Thermal catalyst, No-carbon paper
2	Asbestos; Chrysotile, Crocidolite, Am osite, Anthophylite, Tremolite, Actinolite	1332-21-4 etc.	Friction material, Gasket, Heat insulator material, Thermal insulator, Brake lining, Building materials, Refractory material
3	Chlorinated paraffine (C10-13, Cl ≧ 50w t%)	61788-76-9 etc.	Flame retardant
4	Ozone Depleting Chemical; 1,1,1trichloroethan	71-55-6	Cleaner, Solvent
5	Ozone Depleting Chemical; CFCs and halons	75-69-4 etc.	Solvent, Cleaner, Propellant
6	Ozone Depleting Chemical; Carbon tetrachloride	56-23-5	Solvent
7	Dichloromethane; Methylene chloride	75-09-2	Solvent, Cleaner
8	Tetrachloroethylene; Perchloroethylene	127-18-4	Solvent, Cleaner

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	9	Trichloroethylene; Trichlene	79-01-6	Solvent, Cleaner
	10	Polychlorinated naphthalene (Clx, x>=3); Trichloronaphthalene, Tetrachlorona phthalene, etc	70776-03-3 etc.	Plasticizer, Machine oil
Ī	11	Bis(tri-n-butyltin)oxide	56-35-9	Pigment, Paint additive, Insecticide, Antiseptics,
	12	Organo tin com pounds(Tributyltins, Triphenyltins)	1461-23-0 etc.	Plasticizer, Polyvinyl chloride stabilizer, Various additives
	13	PVC; polyvinylchloride; polyvinylchloride; polivinylchloride blends; vinylchloride polymer	9002-86-2	Synthetic resin material
	14	Ozone Depleting Chemical; HCFCs	75-43-4 etc.	Solvent, Cleaner
	15	Azo compound; Azo dye, pigment (coloring)	92-67-1 etc.	Liquid crystal material, High-tech material, Dyestuff
	16	Nickel	7440-02-0	The purpose of the part which can touch skin.
	17	Nickel compounds	1313-99-1 etc.	Plating process, Metal alloy material, Alumite coloring, Pigment, Paint, Battery, Catalyst

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