

# RoHS POSITION STATEMENT

## RoHS-9

### Standard Product

Angstor, Capstick and Surfilm (RA, RB, RS, CB, CS, ST3 and ST4):

I hereby certify that Paktron is in compliance with the China RoHS Directive of 2/27/2006 (SJ/T 11363-2006), EU RoHS Directive 2011/65/EU (RoHS2) and EU RoHS Directive 2015/863 (RoHS3) on the use of certain hazardous substances in electrical and electronic equipment for all articles, products, materials and parts thereof that is being supplied to Paktron's target Sales markets on a RoHS-9 compliance level and that the information submitted is true and accurate. RoHS-9 means that the content of nine RoHS banned materials (Hg, CrVI, Cd, PBB, PBDE, DEHP, BBP, DPB and DIPB) are under the industry-defined limits stated below. RoHS-9 compliant products have Pb in the termination (secondary interconnect: i.e. terminal leads and lead frames) and match conventional SnPb board assembly requirements for those markets exercising Pb solder exemptions.

## RoHS-10

### Standard Product

Quencharc and Surfilm (QA, QB, QC, QD, QE, QH, QRL, QV, ST2824 and ST3827):







I hereby certify that Paktron is in compliance with the China RoHS Directive of 2/27/2006 (SJ/T 11363-2006), EU RoHS Directive 2011/65/EU (RoHS2) and EU RoHS Directive 2015/863 (RoHS3) on the use of certain hazardous substances in electrical and electronic equipment for all articles, products, materials and parts thereof that is being supplied by Paktron on a full RoHS-10 compliance level and that the information submitted is true and accurate. These Paktron products do not contain any of the ten RoHS banned chemicals, compounds or elements listed, in levels exceeding the industry-defined limits stated below.


### Special Lead-Free Product


Angstor, Capstick and Surfilm (RA, RB, RS, CB, CS, ST3 and ST4):

Subject to minimum order quantities and limited availability, I hereby certify that Paktron is in compliance with the China RoHS Directive of 2/27/2006 (SJ/T 11363-2006), EU RoHS Directive 2011/65/EU (RoHS2) and EU RoHS Directive (EU) 2015/863 (RoHS3) on the use of certain hazardous substances in electrical and electronic equipment for all articles, products, materials and parts thereof that is being supplied by Paktron on a full RoHS-10 compliance level, on a specialized part number basis (consisting of an added suffix of -F?; with the ? assigned at time of order/quote), and that the information submitted is true and accurate. Paktron's special lead-free products do not contain any of the ten RoHS banned chemicals, compounds or elements listed, in levels exceeding the industry-defined limits stated below.

The maximum reflow temperature for surface mount product remains at 220°C while the maximum wave solder temperature for thru-hole product is 260°C. The maximum reflow temperature for surface mount product with the "-FS" suffix is 245°C.

RoHS-9	RoHS-10	Max Limit	Chemical, Compound or Element Content
		0.1% by weight (0.1w percent or 1000ppm)	<ol style="list-style-type: none"> <li>1. Polybrominated Diphenyl Ethers (PBDE); C<sub>12</sub>H<sub>(10-n)</sub>Br<sub>n</sub>O            Pentabromodiphenyl ether (PentaBDE) – CAS number 32534-81-9; C<sub>12</sub>H<sub>5</sub>Br<sub>5</sub>O;            Octabromodiphenyl ether (OctaBDE) – CAS number 32536-52-0; C<sub>12</sub>H<sub>2</sub>Br<sub>8</sub>O            Decabromodiphenyl ether (DecaBDE) – CAS number 1163-19-5; C<sub>12</sub>Br<sub>10</sub>O</li> <li>2. Polybrominated Biphenyls (PBB)            Decabromobiphenyl (DeBBB) – CAS number 13654-09-6; C<sub>12</sub>H<sub>(10-x-y)</sub>Br<sub>x+y</sub></li> <li>3. Mercury – CAS number 7439-97-6; Hg</li> <li>4. Hexavalent Chromium – CAS number 18540-29-9; CrVI</li> <li>5. Bis(2-Ethylhexyl) phthalate (DEHP) – CAS number 117-81-7</li> <li>6. Benzyl butyl phthalate (BBP) – CAS number 85-68-7</li> <li>7. Dibutyl phthalate (DBP) – CAS number 84-74-2</li> <li>8. Diisobutyl phthalate (DIBP) – CAS number 84-69-5</li> </ol>
		0.01% by weight (0.01w percent or 100ppm)	<ol style="list-style-type: none"> <li>9. Cadmium – CAS number 7440-43-9; Cd</li> </ol>
		0.1% by weight (0.1w percent or 1000ppm)	<ol style="list-style-type: none"> <li>10. Lead – CAS number 7439-92-1; Pb</li> </ol>

 : Indicates that said hazardous substance contained in all of the homogeneous materials for this type part is below the RoHS specified limit requirement.

 : Indicates that said hazardous substance contained in at least one of the homogeneous materials used for this type part is above the RoHS specified limit requirement.

Paktron's RoHS-9 product contains the hazardous substance Lead (Pb) only in the product's outer termination solder alloy coating.

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DATE 02/06/2017

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