

RoHS Design Guide

We use only a few restricted substances in our products. The table below will help the designer identify these substances on drawings and specifications. Recommended replacements are then listed to assist in modifying part specifications to meet the current regulations.

Restricted Substance	Common Applications	Typical Uses	Recommended Replacement
Hexavalent Chromate	Gold Chromate Clear Chromate Alodine Chemical Film Mil-C-5541 Irridite AavGard AMS 2473	Finish used for corrosion protection on aluminum heatsinks. Color is typically yellow but can be clear.	AavShield ³ Or visit AavShield ^{NC} Visit aavidthermalloy.com for details
	Duracoat	Finish used to prevent tarnish on Copper.	AavShield ^{3C} visit aavidthermalloy.com for details
	Yellow Zinc Chromate Zinc with Chromate. ASTM B633	Corrosion preventing finish for steel. Typically found on hardware.	Zinc (no chromate), Tin, or nickel plate. Or change base metal to Stainless Steel
Lead	Tin Lead Solder Hot Solder Dip Mil-P-81728A Mil-F-14072 #M258 OV-002 (Items 1-10)	Solderable coating used on pins and tabs which are used to mount the heat sink to the circuit board.	100% Matte Tin Per Aavid-Thermalloy specification OV-002
	Tin Lead solder Sn63/Pb37 Sn/Pb	Alloy used to join metals together via soldering.	Specify <i>Lead-Free Solder Required</i> and we will determine the best alloy for your application
PBDE	T404 T405 T410 Ordering Code 31, 32 and 34 in last 2 digits of Aavid Part Number	Fire retardant found in some interface materials.	T414 T405R T410R Add "G" suffix to end of Aavid P/N