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Quality Control Department: H & N Electronics

P. O. #: verbal/Harold  
INVOICE #: 1304042  
KAPP PN: 121-04701  
BATCH #: SZ0402121- NO EXPIRATION

ALLOY: 91Sn/9Zn  
UNIFIED NO.: L91090 "KAPALLOY"  
DIAMETER: .047" / 1.2mm - 1 # Spools

Certificate of Conformance

ELEMENTS:	Analysis RESULTS %/WEIGHT	Specifications UNIFIED NO.: L91090
Tin (Sn)	Balance	90 - 92
Antimony (Sb)	0.0104	0.025 max.
Copper (Cu)	0.0022	0.005 max.
Lead (Pb)	0.0019	0.003 max.
Aluminum (Al)	0.0005	0.007 max.
Arsenic (As)	0.0035	0.030 max.
Cadmium (Cd)	0.0005	0.005 max.
Zinc (Zn)	9.0049	8 - 10 max.
Bismuth (Bi)	0.0062	0.030 max.
Iron (Fe)	0.0006	0.004 max.
Nickel (Ni)	0.0004	0.010 max.
Silver (Ag)	0.0019	0.050 max.

This alloy complies with the European RoHS Directive. No lead, cadmium or mercury used in production.

100% OF THIS MATERIAL IS MANUFACTURED IN THE U.S.A.

Signature: *Jonathan D. Crawford*  
Jonathan D. Crawford, President

Date: 18 APRIL, 2013