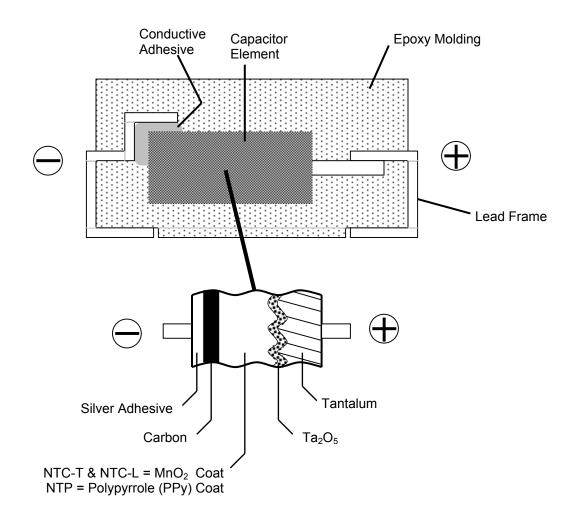


COMPONENT CONSTRUCTION

PRODUCT: SURFACE MOUNT TANTALUM ELECTROLYTIC CAPACITORS SERIES: NTC-T, NTC-L, NTP



ISO 9001:2000 REGISTERED



COMPONENT CONSTRUCTION

PRODUCT: SURFACE MOUNT TANTALUM ELECTROLYTIC CAPACITORS

SERIES: NTC-T, NTC-L, NTP

Sub: Lead Frame material composition

Lead Frame Composition

Finish: **100% Sn** 3~5um ⁻ Barrier: Nickel Plate 0.5~1.0um ₋

Base: 42 Alloy

(40.5 ~42.5% Ni, 56.4~59.4% Fe, <0.8% Mn, <0.3% Si and <0.05% C)

- Lead frame material composition shown above is compatible with reflow and flow-wave soldering techniques
- ❖ 100% Sn finish since February 2002 [PCN Link]



COMPONENT CONSTRUCTION

PRODUCT: SURFACE MOUNT TANTALUM ELECTROLYTIC CAPACITORS

SERIES: NTC-T, NTC-L, NTP

COMPONENT BODY:

EPOXY MOLDING RESIN:

A) MAIN MATERIAL NOVOLAC TYPE EPOXY RESIN

B) HARDENER PHENOL

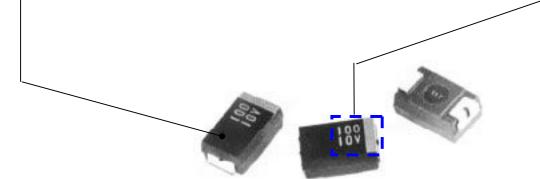
C) FILLER SILICA POWDER D) OTHERS WAX, COLORS

COMPONENT MARKING INK:

A) MAIN MATERIAL RESIN

B) COLORS ALUMINUM OXIDE POWDER

C) OTHER THINNER



ISO 9001:2000 REGISTERED



www.niccomp.com
Tech Support: tpmg@niccomp.com

NIC P/N ... Description

NTC-T ... SMT MnO2 Cathode, Tantalum Electrolytic Capacitors, Lead-Free

NTC-L ... SMT MnO2 Cathode, Low ESR Tantalum Electrolytic Capacitors, Lead-Free

NTP ... SMT Polymer Cathode, Low ESR Tantalum Electrolytic Capacitors, Lead-Free

Please be advised the above NIC product series meet the EU "RoHS" and "WEEE" restriction requirements as identified below*:

- These components have 100%Tin (Sn) plate finish over Nickel (Ni) barrier over base:
- 42 Alloy (40.5 ~42.5% Ni, 56.4~59.4% Fe, <0.8% Mn, <0.3% Si and <0.05% C)
- * Per EU (European Union) directives on WEEE (Waste Electrical and Electronic Equipment) and RoHS (Restriction Of use of certain Hazardous Substances) materials
 - □ <0.1% by weight for Lead
 - □ <0.1% by weight for Hexavalent chromium
 - □ <0.01% by weight for Cadmium
 - □ <100PPM for Mercury
 - □ <0.1% by weight limit on Brominated flame retardants:
 - Polybrominated biphenyls (PBB)
 - Polybrominated diphenylethers(PBDE)

The above NIC components do not contain:

- □ Chlorinated organic compounds
- □ Polychlorinated biphenyls (PCB)
- □ Polychlorinated naphthalenes (PCN)
- □ Chlorinated paraffins (CP)
- Mirex (Perchlordecone) nor other chlorinated organic compounds
- □ Tetrabromobisphenol-A-bis-(2,3-dibromopropylether) (TBBP-A-bis) nor other brominated organic compounds,
- □ Tributyl tin compounds
- □ Triphenyl tin compounds
- Asbestos
- Azo compounds
- □ Formaldehyde
- □ Polyvinyl Chloride (PVC) nor PVC blends

SIGNED: Jim Wright, NIC Components Corp.