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Antimony (Sb<sub>2</sub>O<sub>3</sub>)Copper (Cu)Indium (In)Lead (Pb)Silver (Ag)Tin (Sn) **Substrate**  
**Components** Substrate WeightSubstrate MaterialSubstrate Core  
MaterialBromine-Free

CopperGoldNickelSubstrate Core MaterialSolder MaskTriazolOther **UBM Components**  
Component Weight

Chromium (Cr)Copper (Cu)Nickel (Ni)Nickel-V (NiV)Titanium (Ti)Titanium-W  
(TiW)Tungsten (W)Vanadium (V) **Top Passive Component 1** Material  
Type / PN CodesComponent Weight

Passive Component 1 **Passive Component 2** Material Type / PN CodesComponent  
Weight

Passive Component 2 **Passive Component 3** Material Type / PN CodesComponent  
Weight

Passive Component 3 **Passive Component 4** Material Type / PN CodesComponent  
Weight

Passive Component 4 **Capacitor Components** Component  
Weight

Ceramic (BaTiO<sub>3</sub>)Copper (Electrode) **Crystal Components** Component  
Weight

Silver (Ag)Aluminum (Al)Gold (Au)Chromium (Cr)Lead (Pb)Manganese (Mn)Nickel  
(Ni)Cobalt (Co)Copper (Cu)Iron (Fe)Silicon (Si)Tin (Sn)Zinc (Zn)Silica (SiO<sub>2</sub>) **Diode Components**  
Component Weight

Encapsulant (Phenolic Resin)Gold WireLeadframe (Copper 194)Pellet (Chip)Terminal  
(SnAgCu) **Optocoupler Components** Component Weight

Die (Chip)Encapsulant (Phenolic Resin)Epoxy (Ag)Gold WireLeadframe (Alloy 42)Potting  
Resin (Silicone)Terminal Plating (Sn) **Resistor Components** Component  
Weight

Component Weight **Transformer Components** Component

Weight

Copper  $\text{FeO}_2\text{MnO}_3\text{ZnO}$

Notes:

1. Lead Form: GW - Gull Wing, TH - Through Hole.
2. Refer to product data sheet to confirm actual wire diameter.
3. 'ND' means None Detected, negligible amount present.

This part is qualified as lead-free.

Parts qualified as lead-free can be manufactured and supplied as lead-free, if and only if, the customer makes such requests to the Maxim Business Units for approval. The navigation bar on the EMMI website contains information regarding the lead-free process (e.g. MSL's, Peak reflow Temperatures, JEDEC methods, frequently asked questions and answers, lead-free package tables, and status/qualification plans for particular package types qualified as lead-free or in the qualification process).

This report was generated on 2020-07-10. For additional information, please visit the Maxim/Dallas Environmental Management and Materials Information website located at:

**<http://www.maximintegrated.com/emmi>**