Texas Instruments Inc.
Search results for "TL061CP"

Current Production Information	on						
TI Part Number		TL061CP		Assembly Site		TI AGUASCALIENTES	
Lead/Ball Finish		CU NIPDAU		Package Type / Pins		P 8	
Planned Lead/Ball Finish				Package Body Size (WxLxH) mm		6.35x9.81x4.57	
MSL / Reflow Ratings		Level-NC-NC		Total Device Mass (mg)		440.4000099999999	
Environmental Ratings Inform	nation						
Part Number Type		Std		JIG Material Content Compliance		Level A ONLY	
RoHS & High-Temp Compliant		Υ		Green Compliant		N	
Pb-Free (RoHS) Conversion Date		01-Jan-2002 (DC 0201)		Green Conversion Date		NO PLAN	
Pb-Free (RoHS) Available Supply Date		30-Sep-2005		Green Available Supply Date		NO PLAN	
Component Information							
				Homogeneous Material	Level	Component Level	
Component	Substance	CAS Number	Amount (mg)	Percentage %	ppm		ppm
Bond Wire				. c. cc. nage ve	Ibb	. c. coago . c	-
Metallurgy	Gold	7440-57-5	0.089991	99.9989	999988	0.0204	204
Trace Metal	BervIlium	7440-37-3	0.000001		11	0.0204	
Trace Metal	Calcium	7440-71-7	0.000001	0.0011	0	0	0
Trace Metal	Silver	7440-22-4			0	0	0
Sub-Total	Cilvei	7110 22 1	0.089992	,	Ŭ	0.0204	204
Die Attach Adhesive			0.007772		1000000	0.0204	204
Conductive Material	Silver	7440-22-4	0.0395	5 79	789999	0.009	89
Polymer	Bismaleimide	7440-22-4	0.0065	13		0.007	14
Polymer	Proprietary Resin		0.003	3	60000	0.0013	- 14
Reactive Diluent	Proprietary Material		0.001	,	20000	0.0007	2
Sub-Total	Troprictary Waterial		0.05			0.0114	111
Lead Frame		·	0.00	,	1000000	0.0114	
Base Metal	Copper	7440-50-8	139.871123	97.425	974250	31.76	317600
Base Metal	Iron	7439-89-6	3.445632	2.4	24000	0.7824	7823
Base Metal	Lead	7439-92-1	0.04307		299	0.0098	97
Base Metal	Phosphorus	7723-14-0	0.021535	0.015	149	0.0049	48
Base Metal	Tin	7440-31-5	0.04307		299	0.0098	97
Base Metal	Zinc	7440-66-6	0.143568		1000	0.0326	325
Sub-Total	Ellio	7110 00 0	143.567998	•		32.5995	325990
Lead Frame Plating		<u>'</u>	140.007770	,	1000000	02.0770	020770
Plating	Gold	7440-57-5	0.00103	0.7803	7803	0.0002	2
Plating	Nickel	7440-02-0	0.125558	95.1197	951196	0.0285	285
Plating	Palladium	7440-05-3	0.005412	4.1	41000	0.0012	12
Sub-Total	Talladiditi	7440-03-3	0.132			0.03	299
Mold Compound			0.132	100	1000000	0.03	2//
Coloring	Carbon Black	1333-86-4	0.857269	0.29	2899	0.1947	1946
Filler	Fused Silica	60676-86-0	210.769947	71.3	713000	47.8588	478587
Flame Retardant Additive	Antimony Oxide	1309-64-4	1.18244			0.2685	2684
Flame Retardant Polymer	Brominated Epoxy	1307-04-4	5.9122	0.4	19999	1.3425	13424
Hardener	Phenolic Novolac		26.604901	2	89999	6.0411	60410
Other additives	Catalyst Mold Release Adhesion Agent		7.419811	2.51	25099	1.6848	16847
Polymer	Cresol Novolac Epoxy		42.863452	14.5	144999	9.7328	97328
Sub-Total	oreser Novoide Epoxy		295.61002			67.1231	671226
Semiconductor Device	<u> </u>		2 /3.0 1002	- 100		07.1231	571220
Silicon Chip	Doped Silicon	7440-21-3	0.95	100	1000000	0.2157	2157
Sub-Total	Doped Silicon	/ 1 1 1 0 - 2 1 - 3	0.95			0.2157	2157
	<u> </u>	<u>I</u>			1000000		
Total			440.40001			100	1000000

Important Part Information

There is a remote possibility the Customer Part Number (CPN) your company uses could reference more than one TI part number. This is due to two or more users (EMSIs or subcontractors) using the same CPN for different TI part numbers. If this occurs, please check your Customer Part Number and cross reference it with the TI part number seen on this page.

Product Content Methodology

For an explanation of the methods used to determine material weights, SeeProduct Content Methodology,

Material Declaration Certificate for Semiconductor Products

TI certifies that the material content information provided by TI as of the date of disclosure is representative and accurate. TI semiconductor products designated by TI as "Pb-Free" or "Green" (defined below) do not exceed any of the Joint Industry Guide (JIG) Level-A Substance thresholds and are compliant with the requirements of the European Union's Restriction on Use of Hazardous Substances ("RoHS") Directive, 2002/95/EC.

For TI semiconductor products NOT designated as "Pb-Free" or "Green", these products are RoHS compliant with the exception of Lead (Pb) which may be found in the leadframe plating or solder balls, or in RoHS exempt applications such as high-temperature solder die attach (exemption 7a) and flip-chip solder bumps (exemption 15). This situation is known as RoHS-5 or "5 of 6" compliant.

JIG Level-A Banned Substances	Threshold, Homogeneous Level (1)			
Asbestos	Not intentionally added			
Azo colorants	Not intentionally added			
	75 ppm, Not intentionally added			
RoHS - Cadmium/Cadmium Compounds	(RoHS threshold = 100ppm)			
RoHS - Hexavalent Chromium/Hex.Chromium.Compounds	1000 ppm, Not intentionally added			
RoHS - Lead/Lead Compounds	1000 ppm, Not intentionally added			
RoHS - Mercury/Mercury Compounds	1000 ppm, Not intentionally added			
	Class I: Not intentionally added			
Ozone Depleting Substances	Class II: 1000ppm			
RoHS - Polybrominated Biphenyls (PBBs)	1000 ppm, Not intentionally added			
RoHS - Polybrominated Diphenyl Ethers (PBDEs)	1000 ppm, Not intentionally added			
Polychlorinated Biphenyls (PCBs)	1000 ppm, Not intentionally added			
Polychlorinated Naphthalenes (>3 Chlorine atoms)	1000 ppm, Not intentionally added			
Radioactive Substances	1000 ppm, Not intentionally added			
Shortchain Chlorinated Paraffins	1000 ppm, Not intentionally added			
Tributyl Tin (TBT) and Triphenyl Tin (TPT)	1000 ppm, Not intentionally added			
Tributyl Tin Oxide (TBTO)	1000 ppm, Not intentionally added			
(1) Threshold does not apply to applications covered by a RoHS substance exemption.				

Regarding the EU Directive 2004/12/EC concerning Packaging and Packaging Waste, TI's packing materials (boxes, trays, etc) comply with the directive's requirement that the total concentration of the 4 heavy metals (cadmium, hexavalent chromium, lead, and mercury) must not exceed 100 ppm. Material content details for TI's packing materials are available at www.ti.com/ecoinfo.

TI bases its material content knowledge on information provided by third parties and has taken and continues to take commercially reasonable steps to provide representative and accurate information but may not have conducted destructive testing or chemical analysis on incoming materials and chemicals. TI and TI suppliers consider certain limited information to be proprietary, and thus CAS numbers and other limited information may not be available for release. TI's standard warranty and limitation of liability provisions of TI's Standard Terms and Conditions (available at http://www.ti.com/sc/docs/stdterms.htm) apply to the representations herein unless otherwise provided by a written contract or other agreement signed by the parties.

Signature: (click here for signed certificate)

Name/Title: Cindy Allen, Vice President, Worldwide Quality

Date: September 27, 2006

Pb-Free: TI defines "Pb-Free" or "RoHS Compliant" to mean semiconductor products that are compliant with the current RoHS requirements for all 6 substances, including the requirement that lead not exceed 0.1% by weight in homogeneous materials unless exempt. Where designed to be soldered at high temperatures, TI "Pb-Free" and "RoHS Compliant" products are suitable for use in specified lead-free processes.

Green: TI defines "Green" to mean Pb-Free/RoHS Compliant and free of Bromine (Br) and Antimony (Sb) based flame retardants (Br or Sb do not exceed 0.1% by weight in homogeneous material).