Texas Instruments Inc. Search results for "TPS73115DBVRG4"

TI Part Number Lead/Ball Finish Planned Lead/Ball Finish MSL / Reflow Ratings Environmental Ratings Information Part Number Type RoHS & High-Temp Compliant Pb-Free (RoHS) Conversion Date Pb-Free (RoHS) Available Supply Date Component Information Component Substance Bond Wire Metallurgy Gold Trace Metal Beryllium Trace Metal Copper	C L F Y C C 1 7 7	EPS73115DBVRG4 CU NIPDAU 20-Free 7 201-Sep-2004 (DC 04 10-Mar-2005 CAS Number		Assembly Site Package Type / Pins Package Body Size (Wxl Total Device Mass (mg) JIG Material Content Co Green Compliant Green Conversion Date Green Available Supply	mpliance	Ext-Mfg DBV 5 1.60X2.90X1.45 16.158396 Level A & B Y 01-Sep-2004 (DC 0436) 10-Mar-2005	
Planned Lead/Ball Finish MSL / Reflow Ratings Environmental Ratings Information Part Number Type RoHS & High-Temp Compliant Pb-Free (RoHS) Conversion Date Pb-Free (RoHS) Available Supply Date Component Information Component Bond Wire Metallurgy Gold Trace Metal Beryllium	F F Y C 1 7	Level-1-260C-UNLIM Pb-Free (01-Sep-2004 (DC 04 10-Mar-2005		Package Body Size (Wxl Total Device Mass (mg) JIG Material Content Co Green Compliant Green Conversion Date	mpliance	1.60X2.90X1.45 16.158396 Level A & B Y 01-Sep-2004 (DC 0436)	
MSL / Reflow Ratings Environmental Ratings Information Part Number Type RoHS & High-Temp Compliant Pb-Free (RoHS) Conversion Date Pb-Free (RoHS) Available Supply Date Component Information Component Substance Bond Wire Metallurgy Gold Trace Metal Beryllium	F Y C 1 7	Pb-Free / 01-Sep-2004 (DC 04 10-Mar-2005		Total Device Mass (mg) JIG Material Content Co Green Compliant Green Conversion Date	mpliance	16.158396 Level A & B Y 01-Sep-2004 (DC 0436)	
Environmental Ratings Information Part Number Type RoHS & High-Temp Compliant Pb-Free (RoHS) Conversion Date Pb-Free (RoHS) Available Supply Date Component Information Component Substance Bond Wire Metallurgy Gold Trace Metal Beryllium	F Y C 1 7	Pb-Free / 01-Sep-2004 (DC 04 10-Mar-2005		JIG Material Content Co Green Compliant Green Conversion Date	•	Level A & B Y 01-Sep-2004 (DC 0436)	
Part Number Type RoHS & High-Temp Compliant Pb-Free (RoHS) Conversion Date Pb-Free (RoHS) Available Supply Date Component Information Component Substance Bond Wire Metallurgy Gold Trace Metal Beryllium	Y c 1 7	/ 01-Sep-2004 (DC 04 10-Mar-2005	136)	Green Compliant Green Conversion Date	•	Y 01-Sep-2004 (DC 0436)	
RoHS & High-Temp Compliant Pb-Free (RoHS) Conversion Date Pb-Free (RoHS) Available Supply Date Component Information Component Substance Bond Wire Metallurgy Gold Trace Metal Beryllium	Y c 1 7	/ 01-Sep-2004 (DC 04 10-Mar-2005	136)	Green Compliant Green Conversion Date	•	Y 01-Sep-2004 (DC 0436)	
Pb-Free (RoHS) Conversion Date Pb-Free (RoHS) Available Supply Date Component Information Component Substance Bond Wire Metallurgy Gold Trace Metal Beryllium	1 c	10-Mar-2005	136)	Green Conversion Date	Date		
Pb-Free (RoHS) Available Supply Date Component Information Component Substance Bond Wire Metallurgy Gold Trace Metal Beryllium	1 c	10-Mar-2005	136)		Date		
Pb-Free (RoHS) Available Supply Date Component Information Component Substance Bond Wire Metallurgy Gold Trace Metal Beryllium	7			Green Available Supply	Date	10-Mar-2005	
Component Substance Bond Wire	7	CAS Number				10-Mar-2005	
Bond Wire Metallurgy Gold Trace Metal Beryllium	7	CAS Number					
Bond Wire Metallurgy Gold Trace Metal Beryllium	7	CAS Number		Homogeneous Material	Level	Component Level	
Bond Wire Metallurgy Gold Trace Metal Beryllium			Amount (mg)	Percentage %	ppm	Percentage %	maa
Metallurgy Gold Trace Metal Beryllium							
Trace Metal Beryllium		7440-57-5	0.039996	100	1000000	0.2475	5 2475
		7440-41-7	0	0	0	() 0
		7440-50-8	0	0	0	() 0
Trace Metal Silver		7440-22-4	0	0	0	(0
Sub-Total			0.039996	100	1000000	0.2475	2475
Die Attach Adhesive							
Conductive Material Silver	7	7440-22-4	0.071	71	710000	0.4394	4394
Polymer Epoxy			0.013	13	130000	0.0805	
Polymer Proprietary Res	sin		0.007	7	70000	0.0433	433
Reactive Diluent Proprietary Ma			0.009	9	90000	0.0557	7 556
Sub-Total			0.1	100	1000000	0.6189	6187
Lead Frame							
Base Metal Copper	7	7440-50-8	7.703395	97.425	974250	47.6743	3 476742
Base Metal Iron	7	7439-89-6	0.189768	2.4	24000	1.1744	11744
Base Metal Lead		7439-92-1	0.002372	0.03	299	0.0147	7 146
Base Metal Phosphorus	7	7723-14-0	0.001186	0.015	149	0.0073	3 73
Base Metal Tin	7	7440-31-5	0.002372	0.03	299	0.0147	7 146
Base Metal Zinc	7	7440-66-6	0.007907	0.1	1000	0.0489	9 489
Sub-Total			7.907	100	1000000	48.9343	489340
Lead Frame Plating							
Plating Gold	7	7440-57-5	0.001394	1.5005	15005	0.0086	6 86
Plating Nickel	7	7440-02-0	0.083842	90.2497	902497	0.5189	5188
Plating Palladium	7	7440-05-3	0.007664	8.2497	82497	0.0474	474
Sub-Total			0.0929	100	1000000	0.5749	5748
Mold Compound							
Coloring Carbon Black	1	1333-86-4	0.02229	0.3	3000	0.1379	9 1379
Filler Fused Silica	6	60676-86-0	6.3155	85	850000	39.0849	390849
Hardener Proprietary Ha	rdener		0.3715	5	50000	2.2991	22991
Other additives Catalyst Mold I	Release Adhesion Agent		0.20061	2.7	27000	1.2415	5 12415
Polymer Biphenyl Epoxy	ý		0.3715	5	50000	2.2991	l 22991
Polymer Cresol Novolac	Epoxy		0.1486	2	20000	0.9196	
Sub-Total			7.43	100	1000000	45.9823	459821
Semiconductor Device							
Silicon Chip Doped Silicon	7	7440-21-3	0.5885	100	1000000	3.6421	36420
Sub-Total			0.5885	100	1000000	3.6421	36420
Total			16.158396			100	0 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			
RoHS - Cadmium/Cadmium Compounds	75 ppm, Not intentionally added (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			
Ozone Depleting Substances	Class I : Not intentionally added 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 exem	nption.			

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).