



Semiconductor Device Type: NEA-WQFN-16-3x3x0.8mm-NiPdAu			Package Homogeneous Materials							
Sub-Component	Basic Substance	CAS Number	% Total Weight	mg/part	ppm	0.98	(mg) Total	Die	% of Total Weight	4.66
Die	Silicon	7440-21-3	4.66	0.98	46582		Silicon	7440-21-3	100.00	
Lead Frame	Copper	7440-50-8	30.75	6.46	307456		<b>Total 100.00</b>			
Lead Frame	Iron	7439-89-6	0.73	0.15	7296					
Lead Frame	Zinc	7440-66-6	0.05	0.01	480	<b>6.72</b>	<b>(mg) Total</b>	<b>Lead Frame</b>	<b>% of Total Weight</b>	<b>32.00</b>
Lead Frame	Phosphorus	7723-14-0	0.01	0.00	96		Copper	7440-50-8	96.08	
Lead Frame	Nickel	7440-02-0	0.44	0.09	4416		Iron	7439-89-6	2.28	
Lead Frame	Palladium	7440-05-3	0.02	0.00	192		Zinc	7440-66-6	0.15	
Lead Frame	Gold	7440-57-5	0.01	0.00	64		Phosphorus	7723-14-0	0.03	
Die Attach Material	Silver	7440-22-4	0.06	0.01	624		Nickel	7440-02-0	1.38	
Die Attach Material	Bisphenol F Type Epoxy Resin	9003-36-5	0.00	0.00	32		Palladium	7440-05-3	0.06	
Die Attach Material	Epoxy Resin	Trade Secret	0.00	0.00	40		Gold	7440-57-5	0.02	
Die Attach Material	Hardener	Trade Secret	0.00	0.00	32		<b>Total 100.00</b>			
Die Attach Material	Ethylene dimethacrylate	97-90-5	0.00	0.00	40					
Die Attach Material	1,4-Cyclohexanedimethanol diglycidyl ether	14228-73-0	0.00	0.00	16	<b>0.02</b>	<b>(mg) Total</b>	<b>Die Attach Material</b>	<b>% of Total Weight</b>	<b>0.08</b>
Die Attach Material	Dicyandiamide	461-58-5	0.00	0.00	8		Silver	7440-22-4	78.00	
Die Attach Material	1,1-Di(t-butylperoxy)cyclohexane	3006-86-8	0.00	0.00	8		Bisphenol F Type Epoxy Resin	9003-36-5	4.00	
Bonding Wire	Gold	7440-57-5	0.10	0.02	1000		Epoxy Resin	Trade Secret	5.00	
Molding Compound	Epoxy Resin	Trade secret	3.79	0.80	37897		Hardener	Trade Secret	4.00	
Molding Compound	Phenol Resin	Trade secret	1.89	0.40	18949		Ethylene dimethacrylate	97-90-5	5.00	
Molding Compound	Silica(Amorphous) A	60676-86-0	50.53	10.61	505295		1,4-Cyclohexanedimethanol diglycidyl ether	14228-73-0	2.00	
Molding Compound	Silica(Amorphous) B	7631-86-9	6.32	1.33	63162		Dicyandiamide	461-58-5	1.00	
Molding Compound	Carbon Black	1333-86-4	0.63	0.13	6316		1,1-Di(t-butylperoxy)cyclohexane	3006-86-8	1.00	
<b>TOTALS:</b>			<b>100.00</b>	<b>21.00</b>	<b>1,000,000</b>		<b>Total 100.00</b>			
<b>21.00 mg Total Mass</b>										

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<b>0.02</b>	<b>(mg) Total</b>	<b>Bonding Wire</b>	<b>% of Total Weight</b>	<b>0.10</b>
	Gold	7440-57-5	100.00	
<b>Total 100.00</b>				
<b>13.26</b>	<b>(mg) Total</b>	<b>Molding Compound</b>	<b>% of Total Weight</b>	<b>63.16</b>
	Epoxy Resin	Trade secret	6.00	
	Phenol Resin	Trade secret	3.00	
	Silica(Amorphous) A	60676-86-0	80.00	
	Silica(Amorphous) B	7631-86-9	10.00	
	Carbon Black	1333-86-4	1.00	
<b>21.00</b>	<b>Total</b>		<b>100.00</b>	<b>100.00</b>