

ON Semiconductor			9/9/2019	
Base Part		NCP302150	HF	
Orderable Part		NCP302150MNTWG	Total weight (mg)	73.674269
Homogenous Material	Weight (mg)	Substance in Mat.	CAS #	% Avg. Weight
Clip	6.342949	Zinc (Zn)	7440-66-6	0.12000727
		Iron (Fe)	7439-89-6	2.40024001
		Copper (Cu)	7440-50-8	97.39974261
		Phosphorus (P)	7723-14-0	0.0800101
Die	0.317142	Silicon (Si)	7440-21-3	100
Die Attach Solder	2.177621	Silver (Ag)	7440-22-4	2.5
		Lead (Pb)	7439-92-1	92.5
		Tin (Sn)	7440-31-5	5
		Titanium Dioxide (TiO2)	13463-67-7	7.99380325
Epoxy	0.1291	Bismaleimide	13676-54-5	26.97908598
		Ceramic	12013-47-7, 12047-27-7	8.99302866
		Aluminum Hydroxide (Al(OH)3)	21645-51-2	0.99922541
		PTFE	9002-84-0	55.0348567
		Silver (Ag)	7440-22-4	5.00049771
Lead Frame	31.072307	Zinc (Zn)	7440-66-6	0.1200104
		Iron (Fe)	7439-89-6	2.40024019
		Copper (Cu)	7440-50-8	92.39924477
		Phosphorus (P)	7723-14-0	0.08000693
		Ortho Cresol Novolac Resin	29690-82-2	6.49999992
Mold Compound-Black	31.274585	Carbon Black (C)	1333-86-4	0.50000024
		Silica (SiO2)	14464-46-1	87.99999744
		Phenolic Resin (Novolac)	9003-35-4	5.00000024
Plating	2.100848	Tin (Sn)	7440-31-5	100
Wire Bond - Cu	0.259717	Palladium (Pd)	7440-05-3	1.8
		Gold (Au)	7440-57-5	0.1
		Copper (Cu)	7440-50-8	98.1

Materials Disclosure Disclaimer: Even though all possible efforts have been made to provide you with the most accurate information, we cannot guarantee to its accuracy since the data has been compiled based on the ranges provided, and some information provided by the subcontractors and raw material suppliers may have been withheld to protect their business proprietary information. Thus this information is provided only as estimates, and do not include trace levels of dopants and metal materials contained within silicon devices in the finished products. There is no intentional use of Mercury, Hexavalent Chromium, Cadmium, PBB or PBDE (5 of the 6 RoHS banned substances) in this or any of our other products. For further explanation on material composition calculations, please view our Product Chemical Content Brochure at: <http://www.onsemi.com/pub/Collateral/BRD8022-D.PDF>