


Product				
Mfr Item Number	Mfr Item Name	Version	Mfr Site	Date
M24512E-FMN6TP	PH07*2S120VC	A	3068	26-01-2023
	Amount	UoM	Unit type	ST ECOPACK Grade
	80.00	mg	Each	ECOPACK® 2
	Comment	ECOPACK® 2 is STMicroelectronics trade name for ROHS compliant device without Brominated and Chlorinated compound (900ppm) and without Antimony oxide flame retardant (in each organic material)		

Manufacturing information				
J-STD-020 MSL Rating	Classification Temp	Nbr of Reflow Cycles		 life.augmented
1	260	3		
bulk Solder Termination	Terminal Plating	Terminal Base Alloy	Comment	
NAC	Nickel/Palladium/Gold (Ni/Pd/Au)	Copper Alloy		

Package Designator	Size	Nbr of instances	Shape	
SON	NAC	8	Gull Wing	
Comment	Package : 07 SO 08 .15 JEDEC 0016023			

QueryList : RoHS Directive 2011/65/EU-July 2011 – Annex II amended by Directive 2015/863-April 2015	
Query	Response
1 - Product(s) meets EU RoHS requirement without any exemptions	TRUE
2 - Product(s) meets EU RoHS requirements except lead in solder and this usage may qualify under the lead in solder '7b' exemption (other selected exemptions may apply)	FALSE
3 - Product(s) meets EU RoHS requirements by application of the selected exemption(s)	FALSE
4 - Product(s) does not meet EU RoHS requirements and is not under exemptions	FALSE
Exemption Id.	Description

QueryList : REACH-10 Jun 2022				
Query				Response
1 - Product(s) does not contain REACH Substances Of Very High Concern above the limits per the definition within REACH				TRUE
CategoryLevel_Name	CategoryLevel_Threshold	amount in product (mg)	Application	ppm in product

Material Composition Declaration :						Mfr Item Name	PHO7*2S120VC				7000000.0	1000008.5
note : Substance present with less 0.001mg will not be declared in this document												
Homogeneous Material	Material Group	Mass	UoM	Level	Substance Category	Substance	CAS	Exempt	Mass	UoM	Concentration in homogeneous material (ppm)	Concentration in product (ppm)
Die or dies	M-011 Other inorganic materials	0.774	mg	supplier	die	Silicon (Si)	7440-21-3		0.743	mg	959948	9287
				supplier	metallization	Aluminium (Al)	7429-90-5		0.003	mg	3876	37
				supplier	metallization	Copper (Cu)	7440-50-8		0.009	mg	11628	112
				supplier	metallization	Tantalum (Ta)	7440-25-7		0.001	mg	1292	12
				supplier	metallization	Titanium (Ti)	7440-32-6		0.001	mg	1292	12
				supplier	Passivation	Silicon Nitride	12033-89-5		0.002	mg	2584	25
Lead-frame	M-011 Other inorganic materials	17.694	mg	supplier	Passivation	Silicon Oxide	7631-86-9		0.015	mg	19380	187
				supplier	alloy	Copper (Cu)	7440-50-8		17.243	mg	974500	215531
				supplier	alloy	Iron (Fe)	7439-89-6		0.415	mg	23460	5189
				supplier	alloy	Zinc (Zn)	7440-66-6		0.021	mg	1200	265
				supplier	alloy	Iron Phosphide (FeP)	26508-33-8		0.015	mg	840	186
Lead-frame Coating	M-011 Other inorganic materials	0.076	mg	supplier	coating	Nickel (Ni)	7440-02-0		0.071	mg	940951	890
				supplier	coating	Palladium (Pd)	7440-05-3		0.002	mg	30507	29
				supplier	coating	Gold (Au)	7440-57-5		0.002	mg	28542	27
Die Attach	M-011 Other inorganic materials	0.721	mg	supplier	glue or soft solder	Silver (Ag)	7440-22-4		0.649	mg	900000	8108
				supplier	glue or soft solder	acrylate	Proprietary		0.043	mg	60000	541
				supplier	glue or soft solder	Methacrylate	Proprietary		0.027	mg	38000	342
Wires	M-011 Other inorganic materials	0.029	mg	supplier	glue or soft solder	acrylate	Proprietary		0.001	mg	2000	18
				supplier	Bonding wire	Gold (Au)	7440-57-5		0.029	mg	1000000	365
				supplier	Moulding Compound	Epoxy Resin	Proprietary		4.557	mg	75063	56961
Encapsulation	M-011 Other inorganic materials	60.708	mg	supplier	Moulding Compound	Phenol Resin	Proprietary		3.038	mg	50042	37974
				supplier	Moulding Compound	Silica, vitreous	60676-86-0		52.566	mg	865887	657067
				supplier	Moulding Compound	Carbon-black	1333-86-4		0.304	mg	5004	3797
				supplier	Bismuth/Bismuth Compounds	Bismuth	7440-69-9		0.243	mg	4003	3038
Finishing	M-011 Other inorganic materials	0.001	mg	supplier	connections coating	Nickel (Ni)	7440-02-0		0.001	mg	940951	9
				supplier	connections coating	Palladium (Pd)	7440-05-3		0.000	mg	30507	0
				supplier	connections coating	Gold (Au)	7440-57-5		0.000	mg	28542	0