




Product				
Mfr Item Number	Mfr Item Name	Version	Mfr Site	Date
STM8L101F2P6 STM8L101F2P6TR	X1YA*761XXXY	A	998Z	26-10-2017
	Amount	UoM	Unit type	ST ECOPACK Grade
	72.00	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
3	260	3		
bulk Solder Termination	Terminal Plating	Terminal Base Alloy	Comment	
NAC	NiPdAu	Copper Alloy		

Package Designator	Size	Nbr of instances	Shape	
TSSOP20	NAC	20	L bend	
Comment	Package : YA TSSOP 20 BODY 4.4 PITCH 0.65 0087225			

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-7th July 2017				
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 : note : Substance present with less 0.001mg will not be declared in this document						Mfr Item Name	X1YA*761XXX				7000001.0	1000003.0
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	2.662	mg	supplier	die	Silicon (Si)	7440-21-3		2.580	mg	969196	35833
				supplier	metallization	Aluminium (Al)	7429-90-5		0.007	mg	2630	97
				supplier	metallization	Copper (Cu)	7440-50-8		0.024	mg	9016	333
				supplier	metallization	Tantalum (Ta)	7440-25-7		0.003	mg	1127	42
				supplier	metallization	Titanium (Ti)	7440-32-6		0.004	mg	1503	56
				supplier	Passivation	Silicon Nitride	12033-89-5		0.006	mg	2254	83
Lead-frame	M-011 Other inorganic materials	37.695	mg	supplier	alloy	Copper (Cu)	7440-50-8		36.732	mg	974442	510167
				supplier	alloy	Iron (Fe)	7439-89-6		0.886	mg	23513	12310
				supplier	alloy	Zinc (Zn)	7440-66-6		0.045	mg	1203	630
				supplier	alloy	Iron Phosphide (FeP)	26508-33-8		0.032	mg	842	441
Lead-frame Coating	M-011 Other inorganic materials	0.219	mg	supplier	coating	Nickel (Ni)	7440-02-0		0.201	mg	916800	2786
				supplier	coating	Palladium (Pd)	7440-05-3		0.013	mg	58700	178
				supplier	coating	Gold (Au)	7440-57-5		0.005	mg	24500	74
Die Attach	M-011 Other inorganic materials	1.472	mg	supplier	glue or soft solder	Silver (Ag)	7440-22-4		1.178	mg	800000	16360
				supplier	glue or soft solder	Epoxy resin (molecular weight <= 700g)	9003-36-5		0.118	mg	80000	1636
				supplier	glue or soft solder	Epoxy resin	68475-94-5		0.044	mg	30000	614
				supplier	glue or soft solder	2,6-Diglycidyl phenyl allyl ether oligomer	CE 417-470-1		0.044	mg	30000	614
				supplier	glue or soft solder	Lactone	Proprietary		0.044	mg	30000	614
Wires	M-011 Other inorganic materials	0.292	mg	supplier	glue or soft solder	Polyoxypropylenediamine	9046-10-0		0.044	mg	30000	614
				supplier	Bonding wire	Gold (Au)	7440-57-5		0.292	mg	1000000	4051
Encapsulation	M-011 Other inorganic materials	29.658	mg	supplier	Moulding Compound	Epoxy Resin	Proprietary		2.224	mg	74999	30893
				supplier	Moulding Compound	Phenol Resin	Proprietary		1.483	mg	49999	20595
				supplier	Moulding Compound	Silica, vitreous	60676-86-0		25.684	mg	866002	356715
Finishing	M-011 Other inorganic materials	0.002	mg	supplier	Moulding Compound	Carbon-black	1333-86-4		0.148	mg	5000	2060
				supplier	Bismuth/Bismuth Compounds	Bismuth	7440-69-9		0.119	mg	4000	1648
				supplier	connections coating	Nickel (Ni)	7440-02-0		0.002	mg	916800	28
				supplier	connections coating	Palladium (Pd)	7440-05-3		0.000	mg	58700	2
				supplier	connections coating	Gold (Au)	7440-57-5		0.000	mg	24500	1