

Transponder Coils

Material Data Sheet

Product Class:	SMD Transponder B82450A****A***
Date	21.07.2014
IMDS ID	
if available	
Version:	07



Product Part (IMDS: semi component)	Material Class (IMDS: Material)	Material (Classification) VDA 231	Substance	TMPS**) [wt%]	CAS if applicable	typical mass of material [wt-%]	Traces see 1)
Active Part	Ceramic	4B	Nickel Zinc Ferrite	100	12645-50-0	32.9	
	Heavy Metal	1C	Cu	100	7440-50-8	36.4	
	Elastomer	2B	Polyurethane (PUR)	100	68400-67-9	1.9	
Encapsulation and	Thermoplastic	2A	Liquid Crystal Polymer (LCP) Glass fiber	60 40	147310-94-9 65997-17-3	23.6	
Mounting	Duromer	2C	Epoxy (EP)	100	25068-38-6	0.2	
Termination	Llegar Metal	1C	Cu	94	7440-50-8	4.4	
	Heavy Metal	1C	Sn	6	7440-31-5	4.4	
	Heavy Metal	1C	Ni	100	7440-02-0	0.1	
	Heavy Metal	1C	Sn	100	7440-31-5	0.5	
		•			Sum in total:	100,0	•

Size W x L x H Weight Part Numbers [max. in mm] [approx. in g] 3,5 x 11,6 x 2,4 0,30 B82450A****A***

Not part of a Product Class	Not	part	of a	Product	Class
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^{*)} others: .(not declarable or prohibited substances acc. GADSL)

Important remarks:

- The declaration limit is 0.1% as defined by IEC 62474 (IEC PAS 61906) Traces are product parts, substances etc. that are below a percentage of 0.1 % by weight, if not otherwise regulated

 This Material Data Sheet contains typical values of the respective products set forth
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The products set forth herein are "RoHS-compatible". RoHS-compatible means that products are compatible with the requirements according to Art. 4 (substance restrictions) of Directive 2011/65/EU of the European Parliament and of the Council of June 8th, 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

RoHS - Exemptions for the Product Class / Product according to Annex III: (☑ valid ☐ not valid)

☑ no exemptions;

□ Exemption 6 (a): Lead as an alloying element in steel for machining purposes and in galvanized steel containing up to 0,35 % lead by weight;

☐ Exemption 6 (b): Lead as an alloying element in aluminium containing up to 0,4 % lead by weight;

☐ Exemption 6 (c): Copper alloy containing up to 4 % lead by weight;

□ Exemption 7 (a): Lead in high melting temperature type solder (i.e. lead-based alloys containing 85 % by weight or more lead);

🗆 Exemption 7 (c)-1: Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound;

□ Exemption 7 (c)-II: Lead in dielectric ceramic in capacitors for a rated voltage of 125 V AC or 250 V DC or higher;

☐ Exemption 7 (c)-III: Lead in dielectric ceramic in capacitors for a rated voltage of less than 125 V AC or 250 V DC;

□ Exemption 15: Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit Flip Chip packages;

☐ Other Exemption than above

^{**)} typical mass percentage of substance