

# PERSENDA

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## TECHNICAL SHEET

### PRODOTTO: SOLDER BARS *SRA (Tin, Silver and Copper alloys)*

**DESCRIPTION:** the alloys of SRA family are particularly suitable to replace the traditional Tin/Lead alloys in all electronics lead free soldering process; the specific high grade of raw materials and the particular process adopted in their production, guarantee a very high qualitative level of the final product, free from oxides and dross.

**USE:** *SRA* alloys, formulated in Tin, Silver and Copper composition, find typical use in the wave soldering of printed circuit boards.

Thanks to Silver content in their composition, the alloys of this family guarantee very good results in soldering speed and principally show a big wetting force. The excellent fluidity of these alloys allow clean solder, reducing the faultiness risk due to bridge effects to the minimum.

*SRA* alloys offer a good compatibility with the present technology and they are full suitable for lead free assembly; due higher processing temperature needed with lead free alloys, the check and possible new setting machine is recommended.

Chemical/Physical specifications:				
Typical assay %				
Element	SRA0703 alloy	SRA0530 alloy	SRA0738 alloy	
Sn	Rem	Rem.	Rem.	Melting temp °C: 217/228 - 217/219
Cu	0,7 ± 0,1	0,5 ± 0,1	0,7 ± 0,1	
Ag	0,3 ± 0,05	3,0 ± 0,2	3,8 ± 0,2	Processing temp.°C: 255/270
Pb	0,10 max.	0,10 max.	0,10 max.	
Sb	0,10 max.	0,10 max.	0,10 max.	Density g/cc: 7,33 / 7,37 / 7,44
Bi	0,05 max.	0,05 max.	0,05 max.	
Cd	0,002 max.	0,002 max.	0,002 max.	Tensile strength N/mm <sup>2</sup> : 29.5 / 32
Ni	0,01 max.	0,01 max.	0,01 max.	
Al	0,001 max.	0,001 max.	0,001 max.	Hardness HV: 14.1 / 14.1 / 14.9
As	0,03 max.	0,03 max.	0,03 max.	
Fe	0,02 max.	0,02 max.	0,02 max.	
Zn	0,001 max.	0,001 max.	0,001 max.	

**NOTE:** further information and use warnings are available on specific Safety Data Sheet.