CHIPQUIK® SMDSW.020 2OZ

Datasheet revision 1.7 www.chipquik.com

Solder Wire Sn63/Pb37 No-Clean with 2.2% Flux Core 2oz Spool

Product Highlights

No-Clean Water-Washable Synthetic Flux Core
The clear, non-corrosive, non-conductive residue is meant to be left on the board. Residues that do remain are water soluble if you want to remove them. Clean with hot water at 60°C (140°F) minimum.
2.2% flux core
Halogen content: None

Specifications

Alloy:	Sn63/Pb37
Wire Diameter:	0.020” (0.5mm)
Flux Type:	No-Clean Water-Washable Synthetic
Flux Classification:	ROL0
Melting Point:	183°C (361°F)
Packaging:	2 oz spool
Shelf Life:	>60 months

Test Results

Test J-STD-004 or other requirements as stated	Test Requirement	Result
Copper Mirror	IPC-TM-650: 2.3.32	L: No breakthrough
Corrosion	IPC-TM-650: 2.6.15	L: No corrosion
Quantitative Halides	IPC-TM-650: 2.3.28.1	L: <0.05%
Electrochemical Migration	IPC-TM-650: 2.6.14.1	L: <1 decade drop (No-clean)
Surface Insulation Resistance 85°C, 85% RH @ 168 Hours	IPC-TM-650: 2.6.3.7	L: ≥100MΩ (No-clean)
Visual	IPC-TM-650: 3.4.2.5	Clear and free from precipitation
Conflict Minerals Compliance	Electronic Industry Citizenship Coalition (EICC)	Compliant
REACH Compliance	Articles 33 and 67 of Regulation (EC) No 1907/2006	Contains no substance >0.1% w/w that is listed as a SVHC or restricted for use in solder materials

Conforms to the following Industry Standards:

J-STD-004B, Amendment 1 (Solder Fluxes):	Yes
J-STD-006C, Amendments 1 & 2 (Solder Alloys and Fluxed/Non-Fluxed Solders):	Yes
RoHS 3 Directive (EU) 2015/863:	No

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ChipQuik® Solder Wire Orderable Part Numbers:

Flux Core	Alloy	Melting Point	Diameter	Size	Orderable Part Number
No-Clean Water-Washable Synthetic Flux Core 2.2% (Except .006" and .008" diameter wire which are 1.2%)	Sn63/Pb37	183°C (361°F)	.015" (0.38mm)	100g (3.5oz)	SMDSW.015 100g
			.020" (0.5mm)	0.4 oz	SMDSW.020 .4OZ
				1 oz	SMDSW.020 1OZ
				2 oz	SMDSW.020 2OZ
				4 oz	SMDSW.020 4OZ
				1/2 lb	SMDSW.020 8OZ
				1 lb	SMDSW.020 1LB
			.031" (0.8mm)	0.7 oz	SMDSW.031 .7OZ
				1 oz	SMDSW.031 1OZ
				2 oz	SMDSW.031 2OZ
				4 oz	SMDSW.031 4OZ
				1/2 lb	SMDSW.031 8OZ
				1 lb	SMDSW.031 1LB
	Sn60/Pb40	183-188°C (361-370°F)	.015" (0.38mm)	100g (3.5oz)	SMD2SW.015 100g
			.020" (0.5mm)	0.4 oz	SMD2SW.020 .4OZ
				1 oz	SMD2SW.020 1OZ
				2 oz	SMD2SW.020 2OZ
				4 oz	SMD2SW.020 4OZ
				1/2 lb	SMD2SW.020 8OZ
				1 lb	SMD2SW.020 1LB
			.031" (0.8mm)	0.7 oz	SMD2SW.031 .7OZ
				1 oz	SMD2SW.031 1OZ
				2 oz	SMD2SW.031 2OZ
				4 oz	SMD2SW.031 4OZ
				1/2 lb	SMD2SW.031 8OZ
				1 lb	SMD2SW.031 1LB
	Sn62/Pb36/Ag2	179°C (354°F)	.015" (0.38mm)	100g (3.5oz)	SMD3SW.015 100g
			.020" (0.5mm)	0.4 oz	SMD3SW.020 .4OZ
				1 oz	SMD3SW.020 1OZ
				2 oz	SMD3SW.020 2OZ
				4 oz	SMD3SW.020 4OZ
				1/2 lb	SMD3SW.020 8OZ
				1 lb	SMD3SW.020 1LB
			.031" (0.8mm)	0.7 oz	SMD3SW.031 .7OZ
				1 oz	SMD3SW.031 1OZ
				2 oz	SMD3SW.031 2OZ
				4 oz	SMD3SW.031 4OZ
				1/2 lb	SMD3SW.031 8OZ
				1 lb	SMD3SW.031 1LB

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ChipQuik® Solder Wire Orderable Part Numbers:

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Flux Core	Alloy	Melting Point	Diameter	Size	Orderable Part Number
No-Clean Water-Washable Synthetic Flux Core 2.2% (Except .006" and .008" diameter wire which are 1.2%)	Sn96.5/Ag3.0/Cu0.5	217-220°C (423-428°F)	.006" (0.15mm)	50g (1.8oz)	SMDSWLF.006 50g
			.008" (0.20mm)	50g (1.8oz)	SMDSWLF.008 50g
			.015" (0.38mm)	0.3 oz	SMDSWLF.015 .3OZ
				1 oz	SMDSWLF.015 1OZ
				2 oz	SMDSWLF.015 2OZ
				4 oz	SMDSWLF.015 4OZ
				1/2 lb	SMDSWLF.015 8OZ
				1 lb	SMDSWLF.015 1LB
			.020" (0.5mm)	0.4 oz	SMDSWLF.020 .4OZ
				1 oz	SMDSWLF.020 1OZ
				2 oz	SMDSWLF.020 2OZ
				4 oz	SMDSWLF.020 4OZ
				1/2 lb	SMDSWLF.020 8OZ
				1 lb	SMDSWLF.020 1LB
			.031" (0.8mm)	0.7 oz	SMDSWLF.031 .7OZ
				1 oz	SMDSWLF.031 1OZ
				2 oz	SMDSWLF.031 2OZ
				4 oz	SMDSWLF.031 4OZ
				1/2 lb	SMDSWLF.031 8OZ
				1 lb	SMDSWLF.031 1LB
	Sn99.3/Cu0.7	227°C (441°F)	.012" (0.3mm)	100g (3.5oz)	SMD2SWLF.012 100g
			.015" (0.38mm)	0.3 oz	SMD2SWLF.015 .3OZ
				1 oz	SMD2SWLF.015 1OZ
				2 oz	SMD2SWLF.015 2OZ
				4 oz	SMD2SWLF.015 4OZ
				1/2 lb	SMD2SWLF.015 8OZ
				1 lb	SMD2SWLF.015 1LB
			.020" (0.5mm)	0.4 oz	SMD2SWLF.020 .4OZ
				1 oz	SMD2SWLF.020 1OZ
				2 oz	SMD2SWLF.020 2OZ
				4 oz	SMD2SWLF.020 4OZ
				1/2 lb	SMD2SWLF.020 8OZ
				1 lb	SMD2SWLF.020 1LB
			.031" (0.8mm)	0.7 oz	SMD2SWLF.031 .7OZ
				1 oz	SMD2SWLF.031 1OZ
				2 oz	SMD2SWLF.031 2OZ
				4 oz	SMD2SWLF.031 4OZ
				1/2 lb	SMD2SWLF.031 8OZ
				1 lb	SMD2SWLF.031 1LB
Solid Wire (No Flux)	Sn42/Bi57/Ag1	138°C (281°F)	.030" (0.762mm)	32 feet	SMDSWLTLFP32
	In100	157°C (315°F)	.031" (0.8mm)	10 feet	SMDIN100
	In52/Sn48	118°C (244°F)	.031" (0.8mm)	10 feet	SMDIN52SN48
	In97/Ag3	143°C (289°F)	.031" (0.8mm)	10 feet	SMDIN97AG3

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