

ALPHA[®] EXACTALLOY[®] PREFORMS

Tape and Reel Packaging; Rectangles - Use with Solder Paste Or Paste Flux

DESCRIPTION

ALPHA Exactalloy Preforms in tape and reel packaging provide an easy to implement method for controlling or increasing solder volume. Tape and reel preforms are specifically targeted at electronic assembly applications. These solder rectangles **do not** contain flux but rely on flux paste dispensed during the assembly process; or in the case of PCB assembly rely on flux present in solder paste to support reflow. Solder rectangles in tape and reel packaging are placed with standard pick and place equipment. The wide selection of sizes provides maximum flexibility and cost effectiveness, since a single preform can usually be chosen to provide exactly the solder volume needed.

READ ENTIRE TECHNICAL DATA SHEET BEFORE USING THIS PRODUCT

FEATURES & BENEFITS

Features

- Rectangles available in various sizes
- Do not contain flux, but rely on the flux from solder paste or paste flux for reflow
- Wide alloy flexibility, including common lead free and lead containing alloys used in PCB assembly
- Fast placement utilizing standard equipment
- 7" and 13" standard IEC reels available
- Low Temperature Alloy – Sn42Bi57.6Ag0.4

Benefits

- Precisely defines solder volume
- Reduces voids compared to solder paste
- Reduces flux residues by reducing flux-solder ratio of standard solder paste
- Compatible with standard library pick and place routines
- Compatible with standard nozzle sizes
- Preforms available in all standard solder paste alloys

PRODUCT INFORMATION
Rectangle
S (Side)

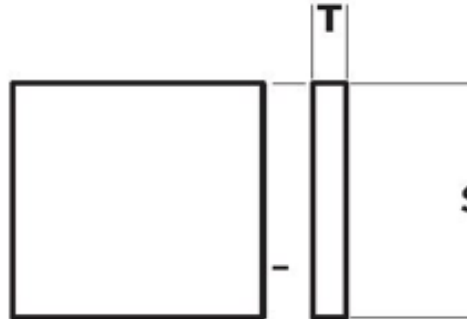
Min = 0.20" (0.51mm)

Max = 2.30" (58.00mm)

T (Thickness)

Min = .002" (0.05mm)

Max = .200" (5.00mm)



Tolerance (mm)	S1	S2	T
Standard	± 0.05	± 0.05	$\pm 10\%$

APPLICATION GUIDELINES

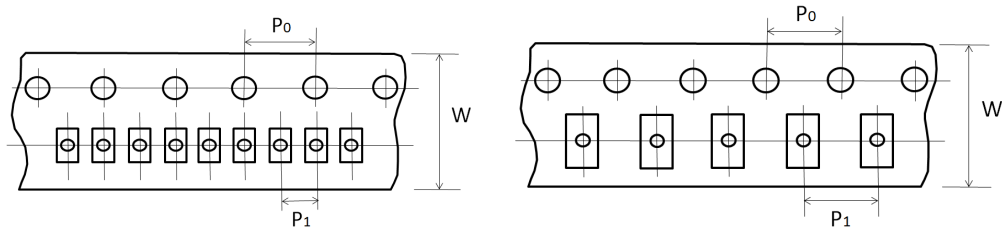
ALPHA Exactalloy Tape and Reel Preform Rectangles, when placed in solder paste or paste flux, precisely control solder volume. They can be used in variety of electronic assembly applications from increasing solder volume on PCBs pads to standalone thermal heat transfer paths for high power applications.

TECHNICAL DATA

Standard	Alloy Designation		Melting or Solidus / Liquidus Temp °C
J-STD-006B	Pb-free	SAC305 / 387 / 357 / 405	217 to 221
	Low-temp	Sn42Bi57.6Ag0.4	138 / 139
	High-Reliability	Innotot	206 to 218
	Sn-Pb	Sn63Pb37 / Sn62Pb36Ag2	179 to 183
Proprietary	Low Silver	SACX Plus 0307	217 to 228

* Also available in other or special alloys on request.

Packaging provided in standard 7" and 13" reels per IEC-60286-X. Refer to this document for more information on the packaging size (tape pocket size, reel width and pocket pitch) relative to your custom preform size..



RECYCLING SERVICES

We provide safe and efficient recycling services to help companies meet their environmental and legislative requirements and at the same time, maximize the value of their waste streams.

Our service collects solder dross, solder scrap, and various forms of solder paste waste. Please contact your local sales representative for recycling capabilities in your area or [link here](#).



SAFETY & WARNING

It is recommended that the company/operator read and review the Safety Data Sheets for the appropriate health and safety warnings before use. **Safety Data Sheets are available at MacdermidAlpha.com/assembly-solutions/knowledge-base.**

STORAGE

The parts are packaged in ESD safe reels. When properly stored (ambient Temperatures and dry), the shelf life is 2 years.

CONTACT INFORMATION

To confirm this document is the most recent version, please contact Assembly@MacDermidAlpha.com

www.macdermidalpha.com

<p>North America 109 Corporate Blvd. South Plainfield, NJ 07080, USA 1.800.367.5460</p>	<p>Europe Unit 2, Genesis Business Park Albert Drive Woking, Surrey, GU21 5RW, UK 44.01483.758400</p>	<p>Asia 8/F., Paul Y. Centre 51 Hung To Road Kwun Tong, Kowloon, Hong Kong 852.3190.3100</p>
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Also read carefully warning and safety information on the Safety Data Sheet. This data sheet contains technical information required for safe and economical operation of this product. READ IT THOROUGHLY PRIOR TO PRODUCT USE . Emergency safety directory assistance: US 1 202 464 2554, Europe + 44 1235 239 670, Asia + 65 3158 1074, Brazil 0800 707 7022 and 0800 172 020, Mexico 01800 002 1400 and (55) 5559 1588

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