

# **ALPHA® TRUEHEIGHT® SPACER**

Tape & Reel Packaging / Spacer with Solderable Surface

### **DESCRIPTION**

**ALPHA TrueHeight Spacer** is burr free, non-collapse copper discs coated with a barrier layer of nickel, and finish coated with flash gold. **ALPHA TrueHeight Spacer** is designed to be automatically placed and reflowed onto a printed circuit board pad printed with a nominal amount of solder paste. Since all sides of the spacer are coated, reflow does not result in exposed copper.

After reflow, the **ALPHA TrueHeight Spacer** provides a precise standoff height. Electronic components that are reflow soldered can benefit from the use of **ALPHA TrueHeight Spacer** to improve soldering results, such as to prevent corner signal shorting on large BGA devices with characteristic warping. Through hole components that need to be reflow soldered but do not contain sufficient standoff height can benefit from the use of **ALPHA TrueHeight Spacers**.

READ ENTIRE TECHNICAL DATA SHEET BEFORE USING THIS PRODUCT

### **FEATURES & BENEFITS**

### **Features**

- Non-collapse spacer function
- Nickel/ gold coated copper disc
- Burr free construction
- Excellent height dimensional tolerance only ± 0.010mm
- Fast placement utilizing standard pick and place equipment
- 7" standard IEC reels available

### **Benefits**

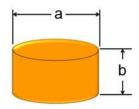
- Burr free construction ensures repeatable height after reflow
- Nickel/ gold plating ensures no exposed copper after reflow
- Gold coating ensures highly solderable surface
- Tape and reel packaging for easy integration into standard assembly processes
- Excellent pick and place performance





### PRODUCT INFORMATION

### Part Dimensions



Part Type mm	Part Type inch	а		b	
		mm	inch	mm	inch
DS-D076H010	DS-D030H004	0.76	0.030	0.10	0.004
DS-D076H025	DS-D030H010	0.76	0.030	0.25	0.010
DS-D076H030	DS-D030H012	0.76	0.030	0.30	0.012
DS-D076H038	DS-D030H015	0.76	0.030	0.38	0.015

Tolerances on the part dimensions: ±0.05mm for Dim. a; ±0.010mm for Dim.

Contact your local sales representative for other available sizes

### **APPLICATION GUIDELINES**

**ALPHA TrueHeight Spacer** are used to maintain a fixed height off the printed circuit board for electronic components. For components such as Ball Grid Array packages, excessive warping during reflow soldering can result in the corner signals shorting against each other as the "frowning" component corners come in near direct contact with the PCB. By adding spacers on the corners of the device, a minimum height is maintained, thus preventing signal shorting.

In applications such as reflow soldering of through hole components, adequate clearance between component body and PCB must be maintained to ensure clearance for solder paste print or preforms placed into the paste to add solder volume. If a though hole component does not have adequate clearance off the PCB, **ALPHA TrueHeight Spacer** can be added to the PCB to enable reflow soldering. This will reduce processing costs (eliminate wave soldering) and improve performance (increase hole fill).





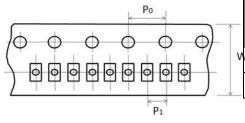


### **TECHNICAL DATA**

Alloy Information

All ALPHA TrueHeight Spacer is constructed of copper with nickel/gold finish.

## Tape and Reel Packaging Information



	Tape Dimensions				
Part Type mm	W	P0	P1		
	mm	mm	mm		
DS-D076H030	8	4	2		
DS-D076H038	8	4	2		



### **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.

### **CONTACT INFORMATION**

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

www.macdermidalpha.com

North America 109 Corporate Blvd. South Plainfield, NJ 07080, USA 1.800.367.5460 **Europe**Unit 2, Genesis Business Park
Albert Drive
Woking, Surrey, GU21 5RW, UK
44.01483.758400

Asia
8/F., Paul Y. Centre
51 Hung To Road
Kwun Tong, Kowloon, Hong Kong
852.3190.3100

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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