



PRESS RELEASE

For Release February 12, 2019

Press Contact: Michael L. Martel, MMC, Inc.
Tel. 401-480-3433
Email: mmcmarketing@gmail.com

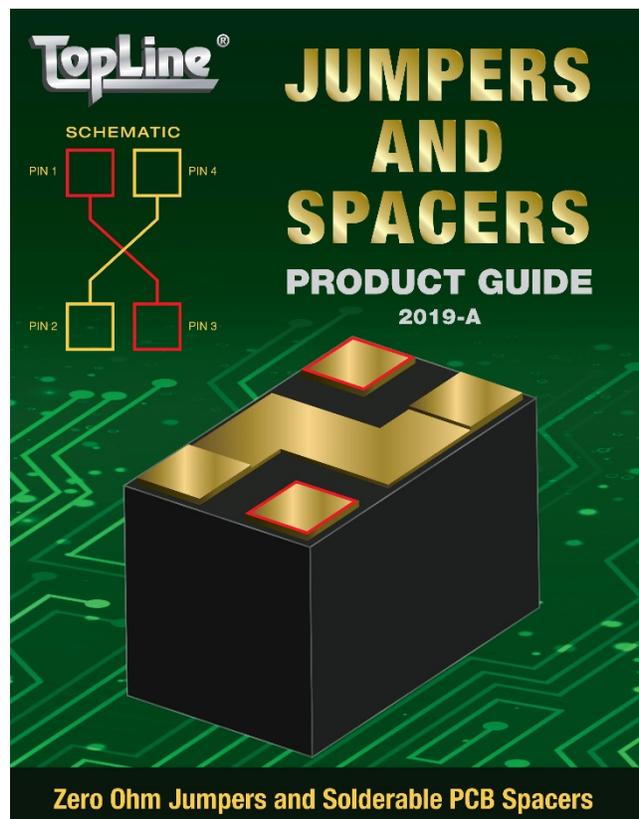
TopLine Launches Comprehensive PCB JUMPERS and SPACERS Product Guide

Irvine California, USA – TopLine announces the publishing of its new PCB JUMPERS and SPACERS product guide 2019-A. Quick to navigate, comprehensive and well-illustrated, this easy-to-use guide of nearly 50 pages is a complete reference tool for engineers seeking SMT-solderable PCB design solutions in Zero Ohm Jumpers, PCB Spacers, Space Fillers, and more. TopLine's PCB JUMPERS and SPACERS product guide 2019-A is readily available online, in print, and as a downloadable PDF.

"Find it Fast" quick-reference illustrated charts make finding different classifications of product a snap, for a wide range of product groups including PCB Spacers, Isolated Space Fillers, MELF Series PCB Jumpers, and more. Images and page references point the way to learning more, all completely and logically organized. TopLine Jumpers, Spacers and Space Fillers are SMT solderable just like regular components.

TopLine has manufactured a wide range of Zero Ohm Jumpers, non-conductive spacers and PCB space fillers since 1989. Zero Ohm Jumpers conduct current above and around traces on the PC Board. Jumpers can be used instead of regular components. They are available in a wide assortment of devices including SOD, SOT, QFN, QFP, and BGA. Custom configurations are available.

Non-conductive Spacers are insulative and prevent adjacent PC Boards from touching one other. They can also be used to prevent a heavy component from sagging. Spacers are SMT solderable, just like regular components.



Space fillers are insulative and empty component packages that look just like normal devices but solder to the PC Board just like normal components. They are electrically isolated without internal connects, and thus will not alter the current flow on the PCB. Use space fillers to cover an empty pad or spot on the PC Board.

Isolated Spacers and Space Fillers do not conduct current. They are electrically isolated and non-conductive. Jumpers, Spacers and Space Fillers are packaged like ordinary devices on Tape and Reel, in tubes or in trays. Contact TopLine for special packaging requirements.

The TopLine PCB JUMPERS and SPACERS product guide Illustrations include schematics, Package Outlines with Perspective views, PCB Patterns, and more, including charts of the Part Numbering System(s). For more information, visit www.PCBJumper.com, or contact TopLine for technical support and questions for applications involving special needs. Email info@TopLine.tv or call TopLine at 1-800-776-9888. All TopLine products are available worldwide through a network of authorized distributors.

About TopLine

TopLine manufactures a wide range of Daisy Chain test components, Column Grid Arrays, Particle Impact Vibration Dampers and engineering evaluation kits for process development, experimentation, machine evaluation, solder training, and SMT assembly practice. TopLine products provide hands-on learning for engineers. For more information about TopLine, visit www.TopLine.tv.

#####