Press release / September 14th, 2020 / MTC Micro Tech Components GmbH / [www.mtc.de](http://www.mtc.de)

**New SMD fasteners from MTC: Universal spacer and fastening solutions for fully automated assembly**

MTC Micro Tech Components GmbH offers with the new SMD fastener series SMF-A, SMF-B and SMF-C electromechanical spacer and fastening solutions for the production of fully automated assembled printed circuit boards. The SMD fasteners are delivered in a blister tape on a roll and are equipped with a Kapton® assembly aid. Thus, the components can be placed on the printed circuit board quickly and precisely using the pick & place method. The Kapton® foil serves as a suction surface for the suction pipette of the placement machine and can be easily removed after assembly. In contrast to manual assembly with conventional spacer and fastening bolts, MTC's SMD fasteners save valuable time in production and enable a particularly reliable and safe assembly workflow. In addition, the tin coating guarantees in the subsequent standard reflow soldering process excellent soldering properties for electrically conductive and mechanically resilient connections with high holding force and torque. The new SMD fasteners are available in a wide range of variants and are ideal for cost-effective mounting of boards and components or as simple spacers for distances between 0.9 and 12 mm. Depending on the design and application, electrical signals can be forwarded, ground connections can be ensured and the thermal connection for thermal management can be realized.

**Extensive standard range for SMD fasteners**

Various base materials are available for the SMD fasteners from MTC. A brass alloy or copper offer improved electrical conductivity, whereas cheaper free-cutting steel is used for purely mechanical applications. As an alternative to the standard tin coating, which ensures optimal solderability and adhesion, a gold coating can be selected for increased corrosion protection. MTC offers numerous product variants, which are divided into three basic types and are available in various lengths and diameters:

SMD fastener type A: With positioning aid, with thread (SMF-A series)

SMD fastener type B: Without positioning aid, with thread (SMF-B series)

SMD fastener type C: With positioning aid, without thread (SMF-C series)

The threads and drillings are used for the attachment of complete (sandwich) boards as well as for the permanently secure mounting of individual components on the board. The positioning aid in shoulder form facilitates centering and the secure insertion into the board bore hole. In the version with through-hole without thread, the SMD fastener serves, among other things, as guide and stop for the screw connections and for the contact.

**Customized solutions without additional tool costs**

For maximum freedom in PCB and housing design, MTC offers its customers the extensive standard range of SMD fasteners as well as the possibility to have customized versions manufactured without additional tooling costs. Here, MTC convinces its customers with competence and quality in technical consulting and development on the basis of the latest 3D technology for precisely fitting component quality in series production.

**MTC products for PCB assembly and technical services**

MTC Micro Tech Components GmbH offers, beside the presented SMD fasteners, further metal parts for the use on the printed circuit board like SMD contact springs, board level shields and shielding clips, SMD contact pads, etc. In addition, MTC has also been a manufacturer and solution provider for components in the field of EMC (electromagnetic compatibility) and TIM (thermally conductive products for thermal management) for over 25 years. For the successful implementation of complex and demanding applications, customers and system developers benefit from extensive services, many years of experience and profound know-how. With in-house development and laboratory capacities as well as production and sales locations in Germany, Hong Kong and South Korea, MTC Micro Tech Components GmbH, headquartered in Dillingen (Donau), Bavaria, convinces customers worldwide as a global supplier for almost all industrial sectors.

**Direct link to the product „SMD fasteners“:**

<https://www.mtc.de/en/emc-metal-parts/smd-fasteners>

**All advantages of the SMD fasteners from MTC at a glance:**

* Cost-effective mounting option or spacer
* Kapton® placement aid for simple pick & place procedure with suction pipette
* Processing in standard reflow soldering process
* Easy and fast assembly
* Excellent solderability due to tin coating
* Brass alloy as base material
* Different variants (with/without positioning aid, with/without thread)
* Customized solutions without tooling costs possible on request
* Delivery in blister tape

**Image source verification:**

Product images © MTC Micro Tech Components GmbH

**For more information, please contact:**

MTC Micro Tech Components GmbH

Hausener Straße 9

89407 Dillingen

Germany

Tel: +49 (0) 9071-7945-0

Fax: +49 (0) 9071-7945-20

Email: info@mtc.de

Web: www.mtc.de

**Press contact:**

Mrs. Birgit Wünschmann

Marketing Communication Manager

MTC Micro Tech Components GmbH

Hausener Straße 9

89407 Dillingen

Germany

Tel: +49 (0) 9071-7945-33

Fax: +49 (0) 9071-7945-20

Email: Birgit.Wuenschmann@mtc.de

Web: www.mtc.de

**Company profile MTC Micro Tech Components GmbH:**

**Specialized full-range supplier**

Reliable protection against electromagnetic radiation and against overheating of components and machines - MTC Micro Tech Components GmbH, headquartered in Dillingen (Bavaria), is specialized in the production and sale of innovative components for electromagnetic compatibility (EMC) and thermal management.

Since its foundation in 1992, the company has experienced steady growth and now operates internationally as an accomplished full-range supplier of EMC shielding materials and thermal management products. Comprehensive customer support, short response and delivery times as well as the greatest possible flexibility through its own in-house logistics are among MTC's core competencies.

Since October 2011, MTC has been part of the globally operating discoverIE Group plc, a leading international supplier of customized electronics. MTC is an independent company within the group. Thanks to the synergies with the British group, MTC will continue to expand its international presence in the future.

**Customized individual solutions for the international market**

In addition to its headquarters in Dillingen a. d. Donau, MTC also maintains a sales office in Hong Kong and production facilities in South Korea and Dillingen.

The extensive MTC product portfolio includes both standard and customized products manufactured to high quality standards. MTC customers benefit from professional consulting services and first-class service and support.

MTC supplies companies worldwide in all sectors, such as automation, automotive, avionics, information technology, medical technology, telecommunications, consumer electronics and renewable energies. The innovative products reliably protect customers' equipment and machinery from malfunctions caused by electromagnetic interference and from overheating.

**Corporate principles and social commitment**

The company's success is guaranteed by an exceptionally high level of customer orientation and corporate planning based on healthy growth. That is why MTC attaches great importance to a trusting relationship with employees, customers and suppliers, characterized by reliability, loyalty and mutual respect.

Social responsibility also grows with success. With the production site in Dillingen in premises of the Regens-Wagner Foundation, MTC promotes the integration of disabled people into everyday working life.

MTC is certified according to ISO 9001 and ISO 14001 and meets all requirements for an environmentally friendly business.