Press release / January 12th, 2021 / MTC Micro Tech Components GmbH / [www.mtc.de](http://www.mtc.de)

**SMD contact pads from MTC as an alternative to SMD contact springs**

In addition to a very extensive and individual range of SMD contact springs, MTC Micro Tech Components GmbH also offers SMD contact pads as a direct alternative. Thanks to the soft and silicone-like material properties, the pads adapt excellently to the shape of the contact area and thus ensure a pronounced surface contact. Due to their high electrical conductivity, they are also particularly suitable for contacting and grounding printed circuit boards to a housing, for example. Compared to contact springs, SMD contact pads from MTC have a very high temperature resistance of up to +400°C and are therefore mainly used in applications where SMD contact springs can no longer be used. Furthermore, the pads have excellent spring properties, with only a small compression set remaining even under very strong compression.

**High quality and automated placement**

Thanks to the special conductive coating, contact pads offer above-average abrasion resistance even under strong vibrations. MTC's SMD contact pads are supplied as standard in "tape & reel" packaging, can be assembled automatically and can be processed in the conventional SMT process without any problems.

**Very good compressibility**

A special feature of SMD contact pads is their unique compressibility. This property offers the advantage that plastic deformation occurs much later than with conventional metal contact springs. Even with strong compression, the contact pads have very good recovery behavior and allow plane-parallel deflection at all heights. Thanks to their high adaptability, the SMD pads conform better to the shape of the contact area, resulting in optimized surface contact.

**High temperature resistance especially for automotive applications**

In general, the SMD contact pads convince with a working temperature range of -40 to +150°C as well as heat resistance up to +400°C. A moist heat test, which maps several cycles from -10 to +65°C over 240 hours at 93% humidity, demonstrated in the laboratory

that MTC's contact pads are also suitable for long-term use under demanding environmental conditions. In addition, extensive tests revealed very low outgassing values of TML<0.05% at +85°C and TML<0.9% at +400°C.

**Standard assortment for SMD contact pads in two versions**

The SMD contact pads are available in two different variants, type S and type W. The two types have a non-conductive silicone core and differ only in terms of the conductive surface coating. Whereas type S has a silicone layer with silver-coated copper particles to provide conductivity on the surface, type W is coated with a tin-plated or gold-plated foil. Type S also has a tinned copper foil on the bottom, which ensures solderability.

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

MTC Micro Tech Components GmbH offers, beside the presented SMD contact pads, further metal parts for the use on the printed circuit board like SMD contact springs, board level shields and shielding clips, SMD fasteners, 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 contact pads“:**

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

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

* Excellent electrical conductivity
* Working temperature from -40 to +150°C
* High temperature resistance up to +400°C
* Very good spring properties
* Automatic assembly on the printed circuit board via SMT process
* High adhesion after SMT process

**Image source verification:**

Product images © MTC Micro Tech Components GmbH

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**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.