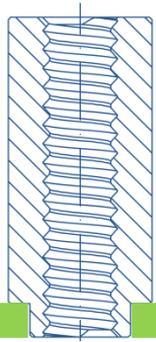
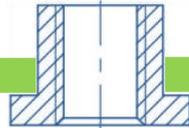
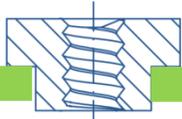


Design-In Distributor
für elektronische Bauteile

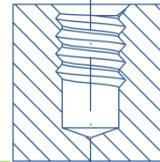
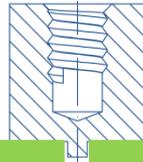
Befestigungselemente für die Elektronik



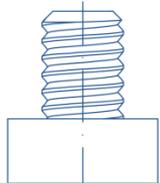
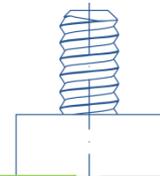
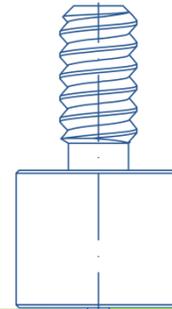
Durchgangsloch
Innengewinde



rückseitig
montiert
 $H_G=1,6+H_{LP}$

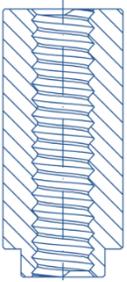
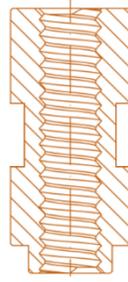
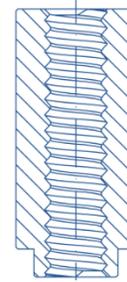
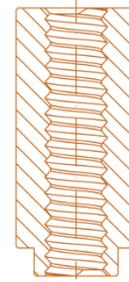


aufsatzmontiert
mit/ohne Zentrierung
Innengewinde

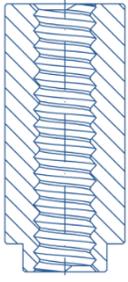


aufsatzmontiert
mit/ohne Zentrierung
mit/ohne Freistich
Außengewinde

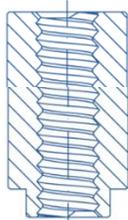
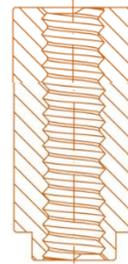
Standard

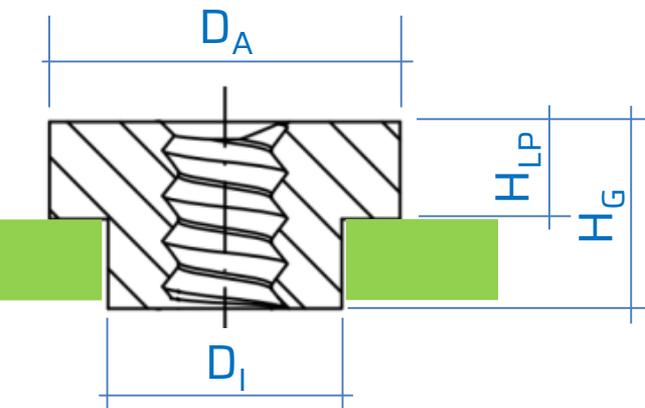
Sonderdesign
AußenfreistichStandard
M3x0,5Sonderdesign
#8 - 32 UNC

Standard

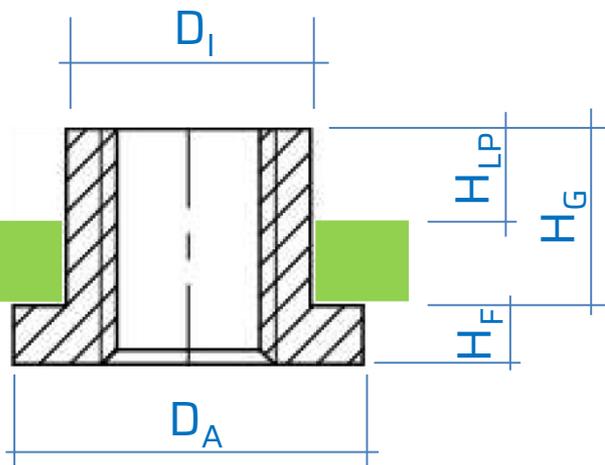


Standard

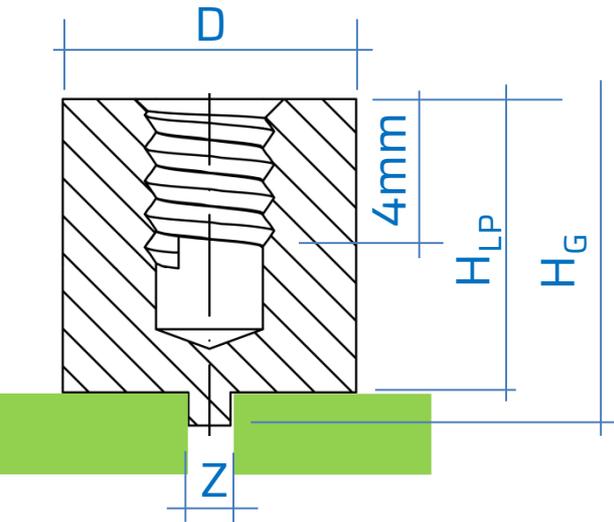
Sonderdesign
Bauhöhe**Sonderdesigns - schnell - kostengünstig**



| Gewinde | H_{LP} [mm] | H_G [mm] | D_A [mm] | D_I [mm] |
|---------|------------------|---------------|---------------|---------------|
| M2 | 1,60 | 3,12 | Ø6,00 | Ø4,00 |
| | 1,60 | 3,12 | Ø6,00 | Ø4,00 |
| | 2,48 | 6,48 | Ø6,00 | Ø4,00 |
| | 3,55 | 4,15 | Ø4,00 | Ø2,30 |
| | 6,00 | 7,40 | Ø4,35 | Ø2,80 |
| M2,5 | 1,00 | 2,40 | Ø5,10 | Ø3,50 |
| | 3,00 | 4,40 | Ø5,10 | Ø3,50 |
| | 5,00 | 6,40 | Ø5,10 | Ø3,50 |
| M3 | 2,45 | 3,15 | Ø5,50 | Ø4,00 |
| | 5,00 | 6,00 | Ø7,00 | Ø4,00 |
| | 10,00 | 11,53 | Ø5,56 | Ø4,09 |
| | 12,00 | 13,40 | Ø6,00 | Ø4,20 |
| | 14,00 | 15,00 | Ø5,50 | Ø4,00 |
| | 15,50 | 16,50 | Ø5,50 | Ø4,00 |
| M4 | 5,00 | 6,00 | Ø7,00 | Ø5,00 |
| | 10,00 | 11,53 | Ø8,74 | Ø6,22 |

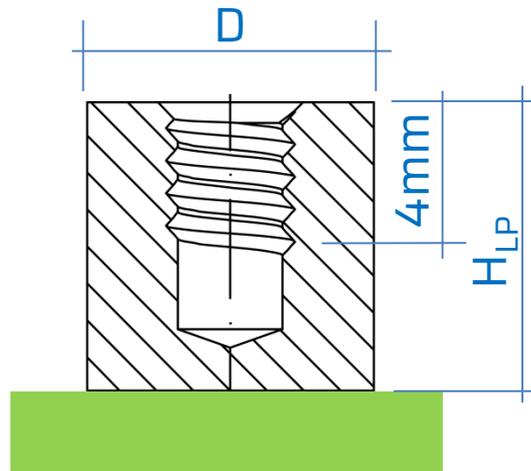


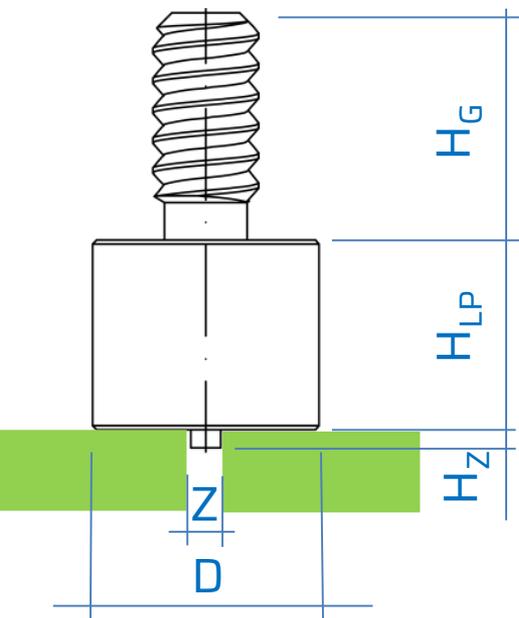
| Gewinde | H_{LP} [mm] | H_G [mm] | H_F [mm] | D_A [mm] | D_I [mm] |
|---------|------------------|---------------|---------------|---------------|---------------|
| M3 | 1,0 | 2,6 | 1,0 | Ø6,0 | Ø4,0 |
| | 1,5 | 3,1 | 1,0 | Ø6,0 | Ø4,0 |
| | 2,0 | 3,6 | 1,0 | Ø6,0 | Ø4,0 |
| | 2,5 | 4,1 | 1,0 | Ø6,0 | Ø4,0 |
| | 3,0 | 4,6 | 1,0 | Ø6,0 | Ø4,0 |
| | 3,5 | 5,1 | 1,0 | Ø6,0 | Ø4,0 |
| | 4,0 | 5,6 | 1,0 | Ø6,0 | Ø4,0 |
| | 5,0 | 6,6 | 1,0 | Ø6,0 | Ø4,0 |
| | 6,0 | 7,6 | 1,0 | Ø6,0 | Ø4,0 |
| | 7,0 | 8,6 | 1,0 | Ø6,0 | Ø4,0 |
| | 8,0 | 9,6 | 1,0 | Ø6,0 | Ø4,0 |
| | 9,0 | 10,6 | 1,0 | Ø6,0 | Ø4,0 |
| | 10,0 | 11,6 | 1,0 | Ø6,0 | Ø4,0 |
| 11,0 | 12,6 | 1,0 | Ø6,0 | Ø4,0 | |
| 12,0 | 13,6 | 1,0 | Ø6,0 | Ø4,0 | |



| Gewinde | H_{LP} [mm] | H_G [mm] | D [mm] | Z [mm] |
|---------|------------------|---------------|-------------------|-------------------|
| M3 | 7,0 | 7,8 | $\varnothing 7,0$ | $\varnothing 1,0$ |
| M4 | 7,0 | 7,8 | $\varnothing 7,0$ | $\varnothing 1,0$ |

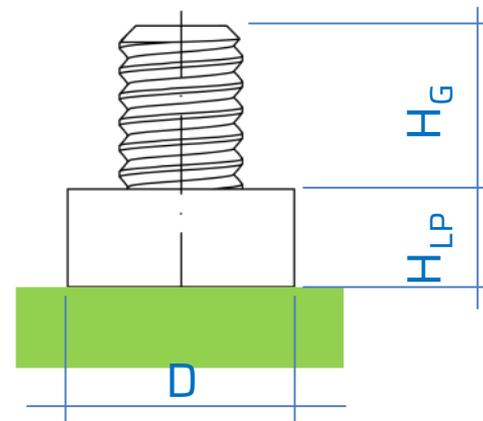
| Gewinde | H_{LP} [mm] | D [mm] |
|---------|------------------|-------------------|
| M3 | 7,0 | $\varnothing 7,0$ |
| M4 | 7,0 | $\varnothing 7,0$ |



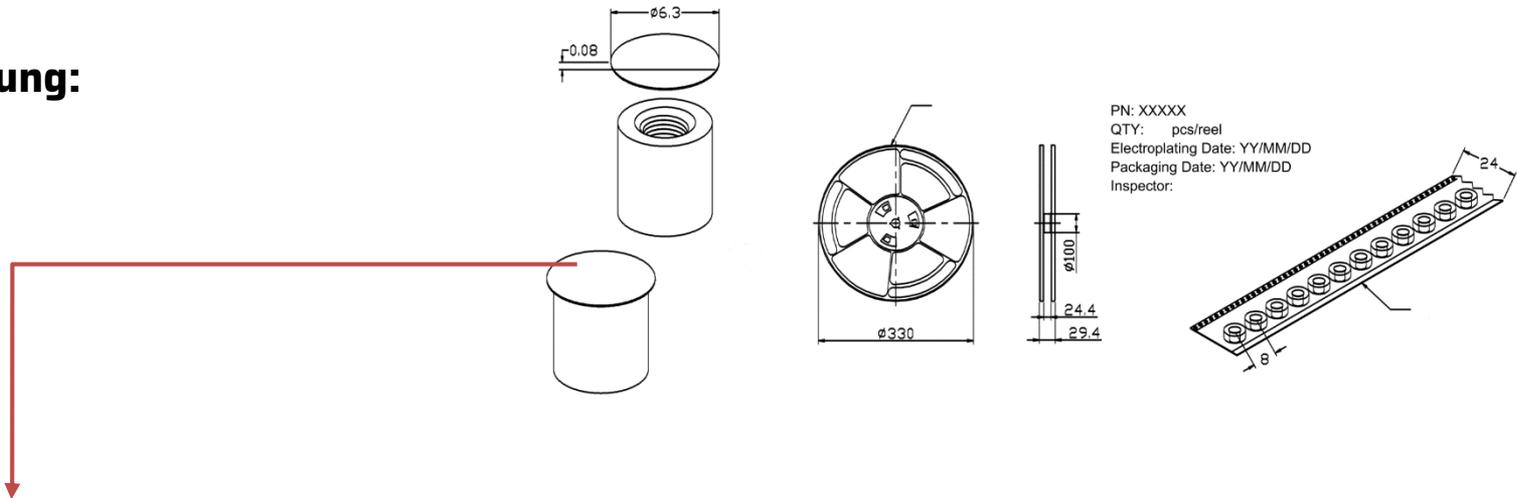


| Gewinde | H_{LP} [mm] | H_G [mm] | D [mm] | Z [mm] | H_Z [mm] |
|---------|------------------|---------------|-------------|-------------|---------------|
| M3 | 3,0 | 5,0 | Ø7,0 | Ø1,0 | 0,8 |
| M3 | 5,0 | 6,0 | Ø6,0 | Ø0,8 | 0,5 |
| M4 | 3,0 | 5,0 | Ø7,0 | Ø1,0 | 0,8 |

| Gewinde | H_{LP} [mm] | H_G [mm] | D [mm] |
|---------|------------------|---------------|-------------|
| M3 | 3,0 | 5,0 | Ø7,0 |
| M4 | 3,0 | 5,0 | Ø7,0 |

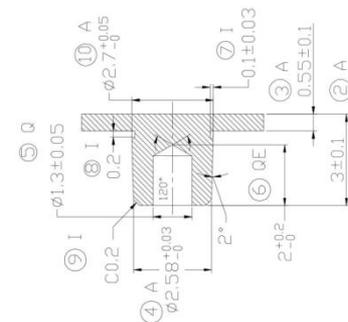


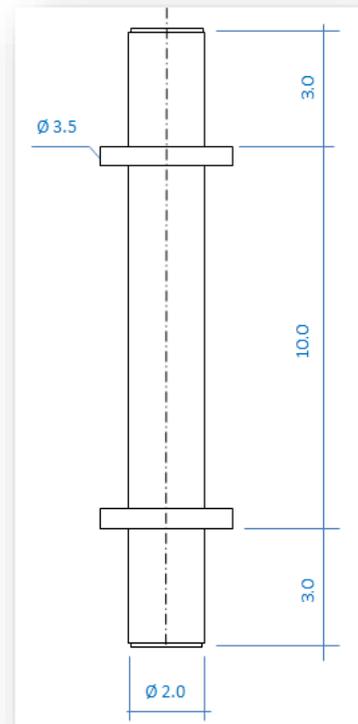
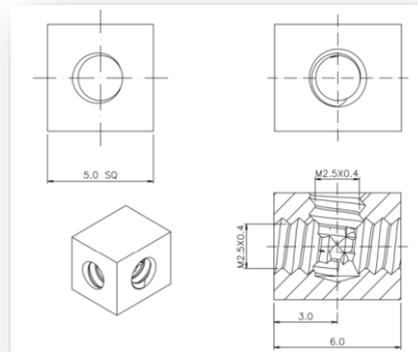
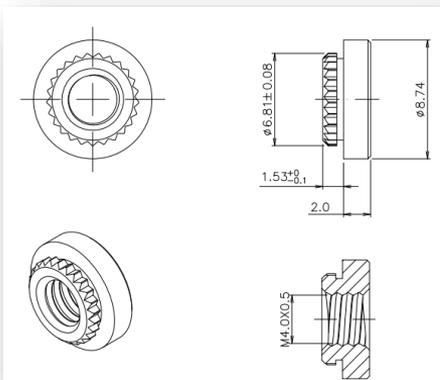
Beispielgurtung:



Lieferform im Blistergurt:

- ohne Bestückungshilfe zur Entnahme mit Greifer
- mit Bestückungshilfe Mylar™ (BO-PET) ohne überstehende Lasche
- mit Bestückungshilfe Teflon™ (PTFE)

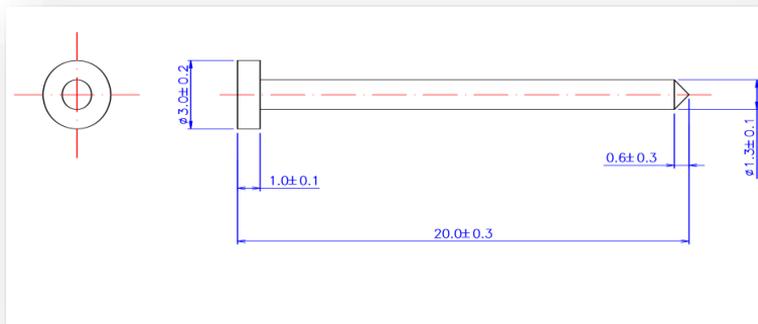




Edelstahl Einpress Gewindehülse

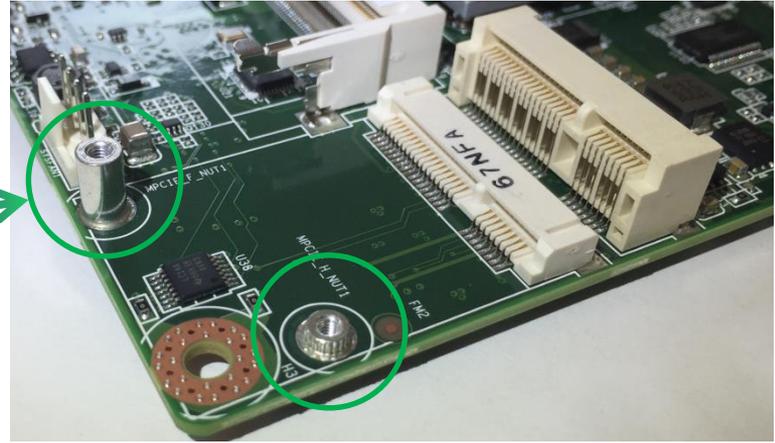
Anschlussblock

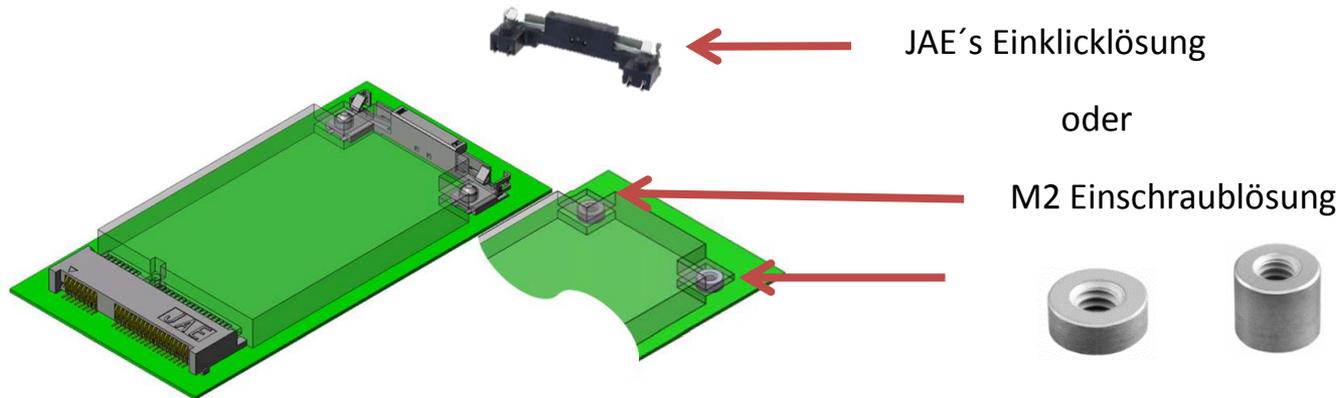
Board 2 Board Pin



Testpin

| Material | Werkstoff Nr. | DIN | JIS (Japan) | Oberfläche |
|--------------|---------------|-------------|-------------|--------------|
| Edelstahl | 1.4305 | X8CrNiS18-9 | SUS303 | |
| Messing | C3604 | CuZn39Pb3 | | Nickel/ Zinn |
| Messing | | CuZn30 | | |
| Stahl | 1.0718 | 11SMnPb30 | | Nickel/ Zinn |
| Messing | | | | Nickel/ Gold |
| Kundenwunsch | | | | |





JAE's Einklicklösung

oder

M2 Einschraublösung



| Gewinde | H _{LP} [mm] | H _G [mm] | D _A [mm] | D _I [mm] | Wittig PN | Remarks |
|---------|-------------------------|------------------------|------------------------|------------------------|-----------|---------|
| M2 | 1,60 | 3,12 | Ø6,00 | Ø4,00 | 90D10088 | Bulk |
| | 1,60 | 3,12 | Ø6,00 | Ø4,00 | 90D10104 | T&R |
| | 3,55 | 4,15 | Ø4,00 | Ø2,30 | 90D10160 | Bulk |
| | 3,55 | 4,15 | Ø4,00 | Ø2,30 | T.B.A | T&R |

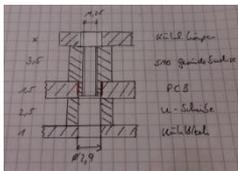


Bekannte Anwendungen

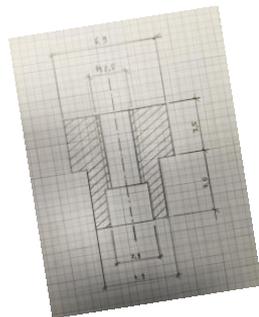
- Kabel Platinen Stromzuführung
- Board to Board Verbinder elektrisch (Masse)
- Board to Board Verbinder mechanisch/ Platinen stapeln (gelötet/ nicht gelötet)
- Test Pins
- definierte flächige Kühlkörpermontage
- doppelseitige Entwärmung von Platinenhotspots
- mechanischer Halter für optionale Karten (WLAN/ Bluetooth/ CAN)
- ???

Vorteile

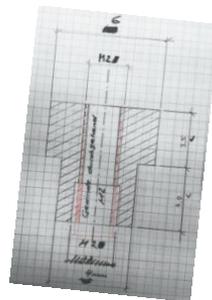
- vollautomatische Bestückung & Fixierung mit der Leiterplatte
→ Reduzierung der Montagezeiten, Kosteneinsparung, Materialeinsparung
- definierter technologischer Prozess
- Gewichtsvorteil



Vorhabenbeschreibung
„Doppelte Kühlung“
Kunde

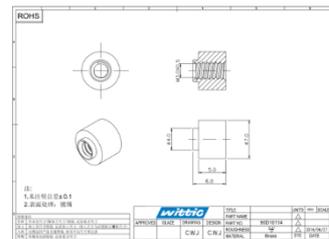


Skizze wittig



Geänderte Skizze oder
Bestätigung Kunde

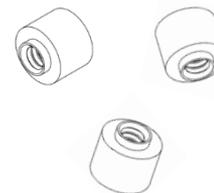
3 Werktage



Technische
Zeichnung

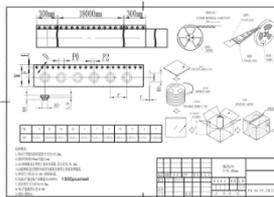


10~20
Werktage

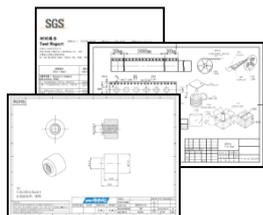


Muster zur Freigabe

3 Werktage



Anlieferform/
Gurtspezifikation



Finales Kundendesign
Gesamtspezifikation



Design-In Distributor
für elektronische Bauteile

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09618 Brand-Erbisdorf
Deutschland

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Fax: +49(0)37322 5280-24
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www.wittig-electronic.de