



Mischsignal  
Successive Approximation Register (SAR) A/D-Wandler



C

| Auflösung (Bits) | Max. Abtastrate (KS/s) | Anzahl der Eingangskanäle | Schnittstelle                     | Eingangsspannungsbereich (V) | Gehäuse   | Digi-Key Teile-Nr.   | Einzelpreis     |      |      | Gegurtet auf Rolle* |              |
|------------------|------------------------|---------------------------|-----------------------------------|------------------------------|-----------|----------------------|-----------------|------|------|---------------------|--------------|
|                  |                        |                           |                                   |                              |           |                      | 1               | 10   | 25   | Menge               | Preisangaben |
| 10               | 200                    | 1                         | SPI™                              | 2.7 - 5.5                    | 8-MSOP    | MCP3001-I/MS-ND      | 1.59            | 1.33 | 1.11 | —                   | —            |
|                  | 200                    | 1                         | SPI™                              | 2.7 - 5.5                    | 8-DIP     | MCP3001-I/P-ND       | 1.59            | 1.33 | 1.11 | —                   | —            |
|                  | 200                    | 1                         | SPI™                              | 2.7 - 5.5                    | 8-SOIC    | MCP3001-I/SN-ND      | 1.59            | 1.33 | 1.11 | —                   | —            |
|                  | 200                    | 1                         | SPI™                              | 2.7 - 5.5                    | 8-TSSOP   | MCP3001-I/ST-ND      | 1.59            | 1.33 | 1.11 | —                   | —            |
|                  | 200                    | 1                         | SPI™                              | 2.7 - 5.5                    | 8-SOIC    | MCP3001T-I/SNCT-ND   | 1.57            | 1.33 | 1.11 | 3,300               | 1009.01/M    |
|                  | 200                    | 2                         | SPI™                              | 2.7 - 5.5                    | 8-MSOP    | MCP3002-I/MS-ND      | 1.72            | 1.44 | 1.20 | —                   | —            |
|                  | 200                    | 2                         | SPI™                              | 2.7 - 5.5                    | 8-DIP     | MCP3002-I/P-ND       | 1.72            | 1.44 | 1.20 | —                   | —            |
|                  | 200                    | 2                         | SPI™                              | 2.7 - 5.5                    | 8-SOIC    | MCP3002-I/SN-ND      | 1.72            | 1.44 | 1.20 | —                   | —            |
|                  | 200                    | 2                         | SPI™                              | 2.7 - 5.5                    | 8-TSSOP   | MCP3002-I/ST-ND      | 1.72            | 1.44 | 1.20 | —                   | —            |
|                  | 200                    | 4                         | SPI™                              | 2.7 - 5.5                    | 14-DIP    | MCP3004-I/P-ND       | 2.00            | 1.67 | 1.39 | —                   | —            |
|                  | 200                    | 4                         | SPI™                              | 2.7 - 5.5                    | 8-MSOP    | MCP3004-I/SL-ND      | 2.00            | 1.67 | 1.39 | —                   | —            |
|                  | 12                     | 200                       | 4                                 | SPI™                         | 2.7 - 5.5 | 14-TSSOP             | MCP3004-I/ST-ND | 2.00 | 1.67 | 1.39                | —            |
| 200              |                        | 8                         | SPI™                              | 2.7 - 5.5                    | 16-DIP    | MCP3008-I/P-ND       | 2.11            | 1.76 | 1.46 | —                   | —            |
| 200              |                        | 8                         | SPI™                              | 2.7 - 5.5                    | 16-SOIC   | MCP3008-I/SL-ND      | 2.11            | 1.76 | 1.46 | —                   | —            |
| 22.3             |                        | 1                         | I <sup>2</sup> C™-kompatibel/SPI™ | 2.7 - 5.5                    | SOT-23A-5 | MCP3021A5T-E/OTCT-ND | 1.05            | .86  | .72  | 3,000               | 648.65/M     |
| 100              |                        | 1                         | SPI™                              | 2.7 - 5.5                    | 8-DIP     | MCP3201-CI/P-ND      | 2.19            | 1.83 | 1.53 | —                   | —            |
| 100              |                        | 1                         | SPI™                              | 2.7 - 5.5                    | 8-SOIC    | MCP3201-CI/SN-ND     | 2.19            | 1.83 | 1.53 | —                   | —            |
| 100              |                        | 1                         | SPI™                              | 2.7 - 5.5                    | 8-DIP     | MCP3201-BI/P-ND      | 2.55            | 2.13 | 1.77 | —                   | —            |
| 100              |                        | 1                         | SPI™                              | 2.7 - 5.5                    | 8-SOIC    | MCP3201-BI/SN-ND     | 2.55            | 2.13 | 1.77 | —                   | —            |
| 100              |                        | 1                         | SPI™                              | 2.7 - 5.5                    | 8-SOIC    | MCP3201T-CI/SNCT-ND  | 2.16            | 1.83 | 1.53 | 3,300               | 1385.39/M    |
| 100              |                        | 1                         | SPI™                              | 2.7 - 5.5                    | 8-TSSOP   | MCP3201-CI/ST-ND     | 2.19            | 1.83 | 1.53 | —                   | —            |
| 100              |                        | 2                         | SPI™                              | 2.7 - 5.5                    | 8-SOIC    | MCP3202-BI/SN-ND     | 2.78            | 2.32 | 1.93 | —                   | —            |
| 13               |                        | 100                       | 2                                 | SPI™                         | 2.7 - 5.5 | 8-DIP                | MCP3202-BI/P-ND | 2.78 | 2.32 | 1.93                | —            |
|                  | 100                    | 2                         | SPI™                              | 2.7 - 5.5                    | 8-MSOP    | MCP3202-CI/MS-ND     | 2.43            | 2.03 | 1.69 | —                   | —            |
|                  | 100                    | 2                         | SPI™                              | 2.7 - 5.5                    | 8-TSSOP   | MCP3202-CI/ST-ND     | 2.43            | 2.03 | 1.69 | —                   | —            |
|                  | 100                    | 2                         | SPI™                              | 2.7 - 5.5                    | 8-DIP     | MCP3202-CI/P-ND      | 2.43            | 2.03 | 1.69 | —                   | —            |
|                  | 100                    | 2                         | SPI™                              | 2.7 - 5.5                    | 8-SOIC    | MCP3202-CI/SN-ND     | 2.43            | 2.03 | 1.69 | —                   | —            |
|                  | 100                    | 4                         | SPI™                              | 2.7 - 5.5                    | 14-DIP    | MCP3204-BI/P-ND      | 3.79            | 3.16 | 2.64 | —                   | —            |
|                  | 100                    | 4                         | SPI™                              | 2.7 - 5.5                    | 14-SOIC   | MCP3204-BI/SL-ND     | 3.79            | 3.16 | 2.64 | —                   | —            |
|                  | 100                    | 4                         | SPI™                              | 2.7 - 5.5                    | 14-DIP    | MCP3204-CI/P-ND      | 3.04            | 2.54 | 2.12 | —                   | —            |
|                  | 100                    | 4                         | SPI™                              | 2.7 - 5.5                    | 14-SOIC   | MCP3204-CI/SL-ND     | 3.04            | 2.54 | 2.12 | —                   | —            |
|                  | 100                    | 4                         | SPI™                              | 2.7 - 5.5                    | 14-SOIC   | MCP3204T-CI/SLCT-ND  | 3.01            | 2.54 | 2.12 | 2,600               | 1921.93/M    |
|                  | 100                    | 4                         | SPI™                              | 2.7 - 5.5                    | 14-TSSOP  | MCP3204-CI/ST-ND     | 3.04            | 2.54 | 2.12 | —                   | —            |
|                  | 18                     | 100                       | 8                                 | SPI™                         | 2.7 - 5.5 | 16-DIP               | MCP3208-BI/P-ND | 4.18 | 3.49 | 2.90                | —            |
| 100              |                        | 8                         | SPI™                              | 2.7 - 5.5                    | 16-SOIC   | MCP3208-BI/SL-ND     | 4.18            | 3.49 | 2.90 | —                   | —            |
| 100              |                        | 8                         | SPI™                              | 2.7 - 5.5                    | 16-DIP    | MCP3208-CI/P-ND      | 3.35            | 2.79 | 2.33 | —                   | —            |
| 100              |                        | 8                         | SPI™                              | 2.7 - 5.5                    | 16-SOIC   | MCP3208-CI/SL-ND     | 3.35            | 2.79 | 2.33 | —                   | —            |
| 22.3             |                        | 1                         | I <sup>2</sup> C™-kompatibel/SPI™ | 2.7 - 5.5                    | SOT-23-5  | MCP3221A5T-E/OTCT-ND | 1.43            | 1.16 | .97  | 3,000               | 872.88/M     |
| 22               |                        | 1                         | I <sup>2</sup> C™-kompatibel/SPI™ | 2.7 - 5.5                    | SOT-23-5  | MCP3221A5T-I/OTCT-ND | 1.43            | 1.16 | .97  | 3,000               | 872.88/M     |
| 100              |                        | 1                         | SPI™                              | 2.7 - 5.5                    | 8-DIP     | MCP3301-BI/P-ND      | 2.51            | 2.09 | 1.74 | —                   | —            |
| 100              |                        | 1                         | SPI™                              | 2.7 - 5.5                    | 8-SOIC    | MCP3301-BI/SN-ND     | 2.51            | 2.09 | 1.74 | —                   | —            |
| 100              |                        | 1                         | SPI™                              | 2.7 - 5.5                    | 8-MSOP    | MCP3301-CI/MS-ND     | 1.99            | 1.82 | 1.52 | —                   | —            |
| 100              |                        | 1                         | SPI™                              | 2.7 - 5.5                    | 8-DIP     | MCP3301-CI/P-ND      | 2.18            | 1.82 | 1.52 | —                   | —            |
| 100              |                        | 1                         | SPI™                              | 2.7 - 5.5                    | 8-SOIC    | MCP3301-CI/SN-ND     | 2.18            | 1.82 | 1.52 | —                   | —            |
| 100              |                        | 2                         | SPI™                              | 2.7 - 5.5                    | 14-DIP    | MCP3302-BI/P-ND      | 3.76            | 3.14 | 2.62 | —                   | —            |
| 22               | 100                    | 2                         | SPI™                              | 2.7 - 5.5                    | 14-SOIC   | MCP3302-BI/SL-ND     | 3.76            | 3.14 | 2.62 | —                   | —            |
|                  | 100                    | 2                         | SPI™                              | 2.7 - 5.5                    | 14-TSSOP  | MCP3302-BI/ST-ND     | 3.43            | 3.14 | 2.62 | —                   | —            |
|                  | 100                    | 2                         | SPI™                              | 2.7 - 5.5                    | 14-DIP    | MCP3302-CI/P-ND      | 3.02            | 2.52 | 2.09 | —                   | —            |
|                  | 100                    | 2                         | SPI™                              | 2.7 - 5.5                    | 14-SOIC   | MCP3302-CI/SL-ND     | 3.02            | 2.52 | 2.09 | —                   | —            |
|                  | 100                    | 2                         | SPI™                              | 2.7 - 5.5                    | 14-TSSOP  | MCP3302-CI/ST-ND     | 2.74            | 2.52 | 2.09 | —                   | —            |
|                  | 100                    | 4                         | SPI™                              | 2.7 - 5.5                    | 16-DIP    | MCP3304-BI/P-ND      | 4.15            | 3.46 | 2.89 | —                   | —            |
|                  | 100                    | 4                         | SPI™                              | 2.7 - 5.5                    | 16-SOIC   | MCP3304-BI/SL-ND     | 4.15            | 3.46 | 2.89 | —                   | —            |
|                  | 100                    | 4                         | SPI™                              | 2.7 - 5.5                    | 16-DIP    | MCP3304-CI/P-ND      | 3.32            | 2.78 | 2.32 | —                   | —            |
|                  | 100                    | 4                         | SPI™                              | 2.7 - 5.5                    | 16-SOIC   | MCP3304-CI/SL-ND     | 3.32            | 2.78 | 2.32 | —                   | —            |

◆ RoHS-konform \* Für „Gegurtet auf Rolle“ die Teile-Nr. CT-ND in TR-ND ändern. † Gutabschnitt

Delta – Sigma A/D-Wandler



| Auflösung (Bits)                                    | Max. Abtastrate (Samples/s) | Eingangstyp    | Schnittstelle     | Versorgungsspannungsbereich (V) | Typ. Versorgungsstrom (µA) | Typische INL (ppm) | Gehäuse  | Digi-Key Teile-Nr.   | Einzelpreis          |      |      | Preisangaben für „Gegurtet auf Rolle“* |
|---|-----------------------------|----------------|-------------------|---------------------------------|----------------------------|--------------------|----------|----------------------|----------------------|------|------|--|
|   |                             |                |                   |                                 |                            |                    |          |                      | 1                    | 10   | 25   | 3000                                   |
| 18  | 4                           | 1 Differenzial | I <sup>2</sup> C™ | 2.7 - 5.5                       | 155                        | 10                 | SOT-23-6 | MCP3421A0T-E/CHCT-ND | 2.36                 | 1.92 | 1.60 | 1449.45/M                              |
|   | 4                           | 1 Differenzial | I <sup>2</sup> C™ | 2.7 - 5.5                       | 155                        | 10                 | SOT-23-6 | MCP3421A1T-E/CHCT-ND | 2.36                 | 1.92 | 1.60 | 1449.45/M                              |
|   | 4                           | 1 Differenzial | I <sup>2</sup> C™ | 2.7 - 5.5                       | 155                        | 10                 | SOT-23-6 | MCP3421A2T-E/CHCT-ND | 2.36                 | 1.92 | 1.60 | 1449.45/M                              |
|   | 4                           | 1 Differenzial | I <sup>2</sup> C™ | 2.7 - 5.5                       | 155                        | 10                 | SOT-23-6 | MCP3421A3T-E/CHCT-ND | 2.36                 | 1.92 | 1.60 | 1449.45/M                              |
|   | 4                           | 2 Differenzial | I <sup>2</sup> C™ | 2.7 - 5.5                       | 145                        | 10                 | 8-DFN    | MCP3422A0-E/MC-ND    | 2.55                 | 2.34 | 1.95 | —                                      |
|   | 4                           | 2 Differenzial | I <sup>2</sup> C™ | 2.7 - 5.5                       | 145                        | 10                 | 8-MSOP   | MCP3422A0-E/MS-ND    | 2.53                 | 2.33 | 1.94 | —                                      |
|   | 4                           | 2 Differenzial | I <sup>2</sup> C™ | 2.7 - 5.5                       | 145                        | 10                 | 8-SOIC   | MCP3422A0-E/SN-ND    | 2.51                 | 2.30 | 1.92 | —                                      |
|   | 4                           | 2 Differenzial | I <sup>2</sup> C™ | 2.7 - 5.5                       | 145                        | 10                 | 10-DFN   | MCP3423-E/MF-ND      | 2.71                 | 2.49 | 2.08 | —                                      |
|   | 4                           | 2 Differenzial | I <sup>2</sup> C™ | 2.7 - 5.5                       | 145                        | 10                 | 10-MSOP  | MCP3423-E/UN-ND      | 2.71                 | 2.49 | 2.08 | —                                      |
|   | 4                           | 4 Differenzial | I <sup>2</sup> C™ | 2.7 - 5.5                       | 145                        | 10                 | 14-SOIC  | MCP3424-E/SL-ND      | 3.41                 | 3.14 | 2.62 | —                                      |
|   | 4                           | 4 Differenzial | I <sup>2</sup> C™ | 2.7 - 5.5                       | 145                        | 10                 | 14-TSSOP | MCP3424-E/ST-ND      | 3.49                 | 3.20 | 2.67 | —                                      |
|   | 16                          | 15             | 1 Differenzial    | I <sup>2</sup> C™               | 2.7 - 5.5                  | 145                | 10       | SOT-23-6             | MCP3425A0T-E/CHCT-ND | 2.15 | 1.74 | 1.45                                   |
| 15  |                             | 2 Differenzial | I <sup>2</sup> C™ | 2.7 - 5.5                       | 145                        | 10                 | 8-DFN    | MCP3426A0-E/MC-ND    | 2.31                 | 2.13 | 1.77 | —                                      |
| 15  |                             | 2 Differenzial | I <sup>2</sup> C™ | 2.7 - 5.5                       | 145                        | 10                 | 8-MSOP   | MCP3426A0-E/MS-ND    | 2.29                 | 2.12 | 1.77 | —                                      |
| 15  |                             | 2 Differenzial | I <sup>2</sup> C™ | 2.7 - 5.5                       | 145                        | 10                 | 8-SOIC   | MCP3426A0-E/SN-ND    | 2.27                 | 2.09 | 1.74 | —                                      |
| 15  |                             | 2 Differenzial | I <sup>2</sup> C™ | 2.7 - 5.5                       | 145                        | 10                 | 10-DFN   | MCP3427-E/MF-ND      | 2.47                 | 2.27 | 1.89 | —                                      |
| 15  |                             | 2 Differenzial | I <sup>2</sup> C™ | 2.7 - 5.5                       | 145                        | 10                 | 10-MSOP  | MCP3427-E/UN-ND      | 2.47                 | 2.27 | 1.89 | —                                      |
| 22  | 13                          | 1 Differenzial | SPI™              | 2.7 - 5.5                       | 120                        | 2                  | 8-MSOP   | MCP3550-60E/MS-ND    | 3.52                 | 3.22 | 2.69 | —                                      |
|   | 13                          | 1 Differenzial | SPI™              | 2.7 - 5.5                       | 120                        | 2                  | 8-SOIC   | MCP3550-60E/SN-ND    | 3.49                 | 3.19 | 2.66 | —                                      |
|   | 15                          | 1 Differenzial | SPI™              | 2.7 - 5.5                       | 140                        | 0.0002             | 8-MSOP   | MCP3550-60E/MS-ND    | 3.52                 | 3.22 | 2.69 | —                                      |
|   | 15                          | 1 Differenzial | SPI™              | 2.7 - 5.5                       | 140                        | 0.0002             | 8-SOIC   | MCP3550-60E/SN-ND    | 3.49                 | 3.19 | 2.66 | —                                      |
|   | 14                          | 1 Differenzial | SPI™              | 2.7 - 5.5                       | 120                        | 0.0002             | 8-MSOP   | MCP3551-E/MS-ND      | 3.52                 | 3.22 | 2.69 | —                                      |
|   | 14                          | 1 Differenzial | SPI™              | 2.7 - 5.5                       | 120                        | 0.0002             | 8-SOIC   | MCP3551-E/SN-ND      | 3.49                 | 3.19 | 2.66 | —                                      |
| 20  | 60                          | 1 Differenzial | SPI™              | 2.7 - 5.5                       | 140                        | 0.0002             | 8-MSOP   | MCP3553-E/MS-ND      | 3.52                 | 3.22 | 2.69 | —                                      |
|   | 60                          | 1 Differenzial | SPI™              | 2.7 - 5.5                       | 140                        | 0.0002             | 8-SOIC   | MCP3553-E/SN-ND      | 3.49                 | 3.19 | 2.66 | —                                      |
| Evaluierungskarte für 2-Kanal-A/D-W MCP3901         |                             |                |                   |                                 |                            |                    |          | MCP3901EV-MCU16-ND   | 64.06                | —    | —    | —                                      |
| Evaluierungskarte für MCP3421                       |                             |                |                   |                                 |                            |                    |          | MCP3421EV-ND         | 12.01                | —    | —    | —                                      |
| Evaluierungskarte für MCP3422                       |                             |                |                   |                                 |                            |                    |          | MCP3422EV-ND         | 12.01                | —    | —    | —                                      |
| Evaluierungskarte für 18-Bit, 2-Kanal-A/D-W MCP3423 |                             |                |                   |                                 |                            |                    |          | MCP3423EV-ND         | 12.01                | —    | —    | —                                      |
| Evaluierungskarte für MCP3424                       |                             |                |                   |                                 |                            |                    |          | MCP3424EV-ND         | 12.01                | —    | —    | —                                      |
| Evaluierungskarte für MCP3425                       |                             |                |                   |                                 |                            |                    |          | MCP3425EV-ND         | 12.01                | —    | —    | —                                      |
| Demokarte für MCP355X                               |                             |                |                   |                                 |                            |                    |          | MCP355XDM-TAS-ND     | 36.04                | —    | —    | —                                      |
| Demokarte für MCP355X                               |                             |                |                   |                                 |                            |                    |          | MCP355XDM-MS1-ND     | 116.12               | —    | —    | —                                      |
| Entwicklungskarte für PT100 RTD-Sensor              |                             |                |                   |                                 |                            |                    |          | TMPSNS-RTD1-ND       | 36.04                | —    | —    | —                                      |
| RTD-Referenzdesignkarte                             |                             |                |                   |                                 |                            |                    |          | TMPSNSRD-RTD2-ND     | 28.03                | —    | —    | —                                      |
| Thermoelement-Referenzdesignkarte                   |                             |                |                   |                                 |                            |                    |          | TMPSNSRD-TCPL1-ND    | 28.03                | —    | —    | —                                      |

◆ RoHS-konform \* Für „Gegurtet auf Rolle“ die Teile-Nr. CT-ND in TR-ND ändern. † Gutabschnitt

(Forts.)

Digi-Reel® Die meisten vom Kunden bestellten SMT-Teile stehen in der gewünschten Menge auf Digi-Reel® zur Verfügung. Für Digi-Reel-Teilenummer 1-ND zu 6-ND bzw. CT-ND zu DKR-ND ändern. Für weitere Informationen siehe Digi-Key® Services auf Seite 2.

Kostenloser Versand für Bestellungen über 65 €!

Alle Preise verstehen sich in Euro und enthalten Zollgebühren.