

# Ceramic Resonators (CERALOCK®)

Ceramic resonators (CERALOCK®) are made of high stability piezoelectric ceramics that function as a mechanical resonator. At present, CERALOCK® find a broad range of applications such as automotive electronics, communications, personal computing, and medical/healthcare equipment.



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| Part Number                                                                   | Frequency | Frequency Tolerance | Frequency Shift by Temperature | Operating Temperature Range | Other Applications  | Shape |
|-------------------------------------------------------------------------------|-----------|---------------------|--------------------------------|-----------------------------|---------------------|-------|
| CSTNE10M0G520000R0<br><small>Under development</small>                        | 10.000MHz | ±0.50%              | ±0.20%                         | -40°C to 85°C               | Consumer/Industrial | SMD   |
| CSTNE10M0G52A000R0<br><small>Under development</small>                        | 10.000MHz | ±0.50%              | ±0.20%                         | -40°C to 125°C              | Automotive          | SMD   |
| CSTNE10M0G52Z000R0<br><small>Under development</small>                        | 10.000MHz | ±0.50%              | ±0.20%                         | -40°C to 125°C              | Consumer/Industrial | SMD   |
| CSTNE10M0G550000R0<br><small>In Production</small> <small>Recommended</small> | 10.000MHz | ±0.50%              | ±0.20%                         | -40°C to 85°C               | Consumer/Industrial | SMD   |
| CSTNE10M0G55A000R0<br><small>In Production</small> <small>Recommended</small> | 10.000MHz | ±0.50%              | ±0.20%                         | -40°C to 125°C              | Automotive          | SMD   |
| CSTNE10M0G55Z000R0<br><small>In Production</small> <small>Recommended</small> | 10.000MHz | ±0.50%              | ±0.20%                         | -40°C to 125°C              | Consumer/Industrial | SMD   |

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| Part Number                                                               | Frequency | Frequency Tolerance | Frequency Shift by Temperature | Operating Temperature Range | Other Applications  | Shape |
|---------------------------------------------------------------------------|-----------|---------------------|--------------------------------|-----------------------------|---------------------|-------|
| CSTNE10M0GH5C000R0<br><span>In Production</span> <span>Recommended</span> | 10.000MHz | ±0.07%              | ±0.13%                         | -40°C to 125°C              | Automotive          | SMD   |
| CSTNE10M0GH5L000R0<br><span>In Production</span> <span>Recommended</span> | 10.000MHz | ±0.07%              | ±0.11%                         | -40°C to 85°C               | Consumer/Industrial | SMD   |
| CSTNE11M0G520000R0<br><span>Under development</span>                      | 11.000MHz | ±0.50%              | ±0.20%                         | -40°C to 85°C               | Consumer/Industrial | SMD   |
| CSTNE11M2G550000R0<br><span>In Production</span> <span>Recommended</span> | 11.289MHz | ±0.50%              | ±0.20%                         | -40°C to 85°C               | Consumer/Industrial | SMD   |
| CSTNE12M0G520000R0<br><span>Under development</span>                      | 12.000MHz | ±0.50%              | ±0.20%                         | -40°C to 85°C               | Consumer/Industrial | SMD   |
| CSTNE12M0G52A000R0<br><span>Under development</span>                      | 12.000MHz | ±0.50%              | ±0.20%                         | -40°C to 125°C              | Automotive          | SMD   |
| CSTNE12M0G52Z000R0<br><span>Under development</span>                      | 12.000MHz | ±0.50%              | ±0.20%                         | -40°C to 125°C              | Consumer/Industrial | SMD   |
| CSTNE12M0G550000R0<br><span>In Production</span> <span>Recommended</span> | 12.000MHz | ±0.50%              | ±0.20%                         | -40°C to 85°C               | Consumer/Industrial | SMD   |
| CSTNE12M0G55A000R0<br><span>In Production</span> <span>Recommended</span> | 12.000MHz | ±0.50%              | ±0.20%                         | -40°C to 125°C              | Automotive          | SMD   |
| CSTNE12M0G55Z000R0<br><span>In Production</span> <span>Recommended</span> | 12.000MHz | ±0.50%              | ±0.20%                         | -40°C to 125°C              | Consumer/Industrial | SMD   |
| CSTNE12M0GH5C000R0<br><span>In Production</span> <span>Recommended</span> | 12.000MHz | ±0.07%              | ±0.13%                         | -40°C to 125°C              | Automotive          | SMD   |
| CSTNE12M0GH5L000R0<br><span>In Production</span> <span>Recommended</span> | 12.000MHz | ±0.07%              | ±0.11%                         | -40°C to 85°C               | Consumer/Industrial | SMD   |
| CSTNE12M2G520000R0<br><span>Under development</span>                      | 12.288MHz | ±0.50%              | ±0.20%                         | -40°C to 85°C               | Consumer/Industrial | SMD   |
| CSTNE12M2G550000R0<br><span>In Production</span> <span>Recommended</span> | 12.288MHz | ±0.50%              | ±0.20%                         | -40°C to 85°C               | Consumer/Industrial | SMD   |
| CSTNE12M2G55A000R0<br><span>In Production</span> <span>Recommended</span> | 12.288MHz | ±0.50%              | ±0.20%                         | -40°C to 125°C              | Automotive          | SMD   |

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| Part Number                                                               | Frequency | Frequency Tolerance | Frequency Shift by Temperature | Operating Temperature Range | Other Applications  | Shape |
|---------------------------------------------------------------------------|-----------|---------------------|--------------------------------|-----------------------------|---------------------|-------|
| CSTNE12M2GH5L000R0<br><span>In Production</span> <span>Recommended</span> | 12.288MHz | ±0.07%              | ±0.11%                         | -40°C to 85°C               | Consumer/Industrial | SMD   |
| CSTNE12M5G520000R0<br><span>Under development</span>                      | 12.500MHz | ±0.50%              | ±0.20%                         | -40°C to 85°C               | Consumer/Industrial | SMD   |
| CSTNE12M5G550000R0<br><span>In Production</span> <span>Recommended</span> | 12.500MHz | ±0.50%              | ±0.20%                         | -40°C to 85°C               | Consumer/Industrial | SMD   |
| CSTNE12M5G55A000R0<br><span>In Production</span> <span>Recommended</span> | 12.500MHz | ±0.50%              | ±0.20%                         | -40°C to 125°C              | Automotive          | SMD   |
| CSTNE12M5G55Z000R0<br><span>In Production</span> <span>Recommended</span> | 12.500MHz | ±0.50%              | ±0.20%                         | -40°C to 125°C              | Consumer/Industrial | SMD   |
| CSTNE13M0G520000R0<br><span>Under development</span>                      | 13.000MHz | ±0.50%              | ±0.20%                         | -40°C to 85°C               | Consumer/Industrial | SMD   |
| CSTNE13M0G55A000R0<br><span>In Production</span> <span>Recommended</span> | 13.000MHz | ±0.50%              | ±0.20%                         | -40°C to 125°C              | Automotive          | SMD   |
| CSTNE13M5G520000R0<br><span>Under development</span>                      | 13.500MHz | ±0.50%              | ±0.20%                         | -40°C to 85°C               | Consumer/Industrial | SMD   |
| CSTNE13M5G550000R0<br><span>In Production</span> <span>Recommended</span> | 13.500MHz | ±0.50%              | ±0.20%                         | -40°C to 85°C               | Consumer/Industrial | SMD   |
| CSTNE14M0V510000R0<br><span>Under development</span>                      | 14.000MHz | ±0.50%              | ±0.30%                         | -40°C to 85°C               | Consumer/Industrial | SMD   |
| CSTNE14M0V530000R0<br><span>In Production</span> <span>Recommended</span> | 14.000MHz | ±0.50%              | ±0.30%                         | -40°C to 85°C               | Consumer/Industrial | SMD   |
| CSTNE14M0V53C000R0<br><span>In Production</span> <span>Recommended</span> | 14.000MHz | ±0.50%              | ±0.15%                         | -40°C to 125°C              | Automotive          | SMD   |
| CSTNE14M3V530000R0<br><span>In Production</span> <span>Recommended</span> | 14.318MHz | ±0.50%              | ±0.30%                         | -40°C to 85°C               | Consumer/Industrial | SMD   |
| CSTNE14M7V510000R0<br><span>Under development</span>                      | 14.746MHz | ±0.50%              | ±0.30%                         | -40°C to 85°C               | Consumer/Industrial | SMD   |
| CSTNE14M7V530000R0<br><span>In Production</span> <span>Recommended</span> | 14.746MHz | ±0.50%              | ±0.30%                         | -40°C to 85°C               | Consumer/Industrial | SMD   |

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| Part Number                                                               | Frequency | Frequency Tolerance | Frequency Shift by Temperature | Operating Temperature Range | Other Applications  | Shape |
|---------------------------------------------------------------------------|-----------|---------------------|--------------------------------|-----------------------------|---------------------|-------|
| CSTNE14M7V53C000R0<br><span>In Production</span> <span>Recommended</span> | 14.746MHz | ±0.50%              | ±0.15%                         | -40°C to 125°C              | Automotive          | SMD   |
| CSTNE15M0V530000R0<br><span>In Production</span> <span>Recommended</span> | 15.000MHz | ±0.50%              | ±0.30%                         | -40°C to 85°C               | Consumer/Industrial | SMD   |
| CSTNE15M0V53C000R0<br><span>In Production</span> <span>Recommended</span> | 15.000MHz | ±0.50%              | ±0.15%                         | -40°C to 125°C              | Automotive          | SMD   |
| CSTNE16M0V510000R0<br><span>Under development</span>                      | 16.000MHz | ±0.50%              | ±0.30%                         | -40°C to 85°C               | Consumer/Industrial | SMD   |
| CSTNE16M0V51C000R0<br><span>Under development</span>                      | 16.000MHz | ±0.50%              | ±0.30%                         | -40°C to 125°C              | Automotive          | SMD   |
| CSTNE16M0V51Z000R0<br><span>Under development</span>                      | 16.000MHz | ±0.50%              | ±0.30%                         | -40°C to 125°C              | Consumer/Industrial | SMD   |
| CSTNE16M0V530000R0<br><span>In Production</span> <span>Recommended</span> | 16.000MHz | ±0.50%              | ±0.30%                         | -40°C to 85°C               | Consumer/Industrial | SMD   |
| CSTNE16M0V53C000R0<br><span>In Production</span> <span>Recommended</span> | 16.000MHz | ±0.50%              | ±0.15%                         | -40°C to 125°C              | Automotive          | SMD   |
| CSTNE16M0V53Z000R0<br><span>In Production</span> <span>Recommended</span> | 16.000MHz | ±0.50%              | ±0.30%                         | -40°C to 125°C              | Consumer/Industrial | SMD   |
| CSTNE16M0VH3C000R0<br><span>In Production</span> <span>Recommended</span> | 16.000MHz | ±0.07%              | ±0.13%                         | -40°C to 125°C              | Automotive          | SMD   |
| CSTNE16M0VH3L000R0<br><span>In Production</span> <span>Recommended</span> | 16.000MHz | ±0.07%              | ±0.11%                         | -40°C to 85°C               | Consumer/Industrial | SMD   |
| CSTNE16M3V530000R0<br><span>In Production</span> <span>Recommended</span> | 16.384MHz | ±0.50%              | ±0.30%                         | -40°C to 85°C               | Consumer/Industrial | SMD   |
| CSTNE16M5V530000R0<br><span>In Production</span> <span>Recommended</span> | 16.500MHz | ±0.50%              | ±0.30%                         | -40°C to 85°C               | Consumer/Industrial | SMD   |
| CSTNE16M6V530000R0<br><span>In Production</span> <span>Recommended</span> | 16.670MHz | ±0.50%              | ±0.30%                         | -40°C to 85°C               | Consumer/Industrial | SMD   |
| CSTNE16M6V53C000R0<br><span>In Production</span> <span>Recommended</span> | 16.670MHz | ±0.50%              | ±0.15%                         | -40°C to 125°C              | Automotive          | SMD   |

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| Part Number                                                               | Frequency | Frequency Tolerance | Frequency Shift by Temperature | Operating Temperature Range | Other Applications  | Shape |
|---------------------------------------------------------------------------|-----------|---------------------|--------------------------------|-----------------------------|---------------------|-------|
| CSTNE16M6V53Z000R0<br><span>In Production</span> <span>Recommended</span> | 16.670MHz | ±0.50%              | ±0.30%                         | -40°C to 125°C              | Consumer/Industrial | SMD   |
| CSTNE16M8V530000R0<br><span>In Production</span> <span>Recommended</span> | 16.800MHz | ±0.50%              | ±0.30%                         | -40°C to 85°C               | Consumer/Industrial | SMD   |
| CSTNE16M9V530000R0<br><span>In Production</span> <span>Recommended</span> | 16.934MHz | ±0.50%              | ±0.30%                         | -40°C to 85°C               | Consumer/Industrial | SMD   |
| CSTNE16M9V53C000R0<br><span>In Production</span> <span>Recommended</span> | 16.934MHz | ±0.50%              | ±0.15%                         | -40°C to 125°C              | Automotive          | SMD   |
| CSTNE16M9V53Z000R0<br><span>In Production</span> <span>Recommended</span> | 16.934MHz | ±0.50%              | ±0.30%                         | -40°C to 125°C              | Consumer/Industrial | SMD   |
| CSTNE17M0V530000R0<br><span>In Production</span> <span>Recommended</span> | 17.000MHz | ±0.50%              | ±0.30%                         | -40°C to 85°C               | Consumer/Industrial | SMD   |
| CSTNE17M2V530000R0<br><span>In Production</span> <span>Recommended</span> | 17.200MHz | ±0.50%              | ±0.30%                         | -40°C to 85°C               | Consumer/Industrial | SMD   |
| CSTNE18M0V510000R0<br><span>Under development</span>                      | 18.000MHz | ±0.50%              | ±0.30%                         | -40°C to 85°C               | Consumer/Industrial | SMD   |
| CSTNE18M0V530000R0<br><span>In Production</span> <span>Recommended</span> | 18.000MHz | ±0.50%              | ±0.30%                         | -40°C to 85°C               | Consumer/Industrial | SMD   |
| CSTNE18M0VH3C000R0<br><span>In Production</span> <span>Recommended</span> | 18.000MHz | ±0.07%              | ±0.13%                         | -40°C to 125°C              | Automotive          | SMD   |
| CSTNE18M4V530000R0<br><span>In Production</span> <span>Recommended</span> | 18.432MHz | ±0.50%              | ±0.30%                         | -40°C to 85°C               | Consumer/Industrial | SMD   |
| CSTNE18M4V53C000R0<br><span>In Production</span> <span>Recommended</span> | 18.432MHz | ±0.50%              | ±0.15%                         | -40°C to 125°C              | Automotive          | SMD   |
| CSTNE18M4V53Z000R0<br><span>In Production</span> <span>Recommended</span> | 18.432MHz | ±0.50%              | ±0.30%                         | -40°C to 125°C              | Consumer/Industrial | SMD   |
| CSTNE18M7V530000R0<br><span>In Production</span> <span>Recommended</span> | 18.750MHz | ±0.50%              | ±0.30%                         | -40°C to 85°C               | Consumer/Industrial | SMD   |
| CSTNE19M2V530000R0<br><span>In Production</span> <span>Recommended</span> | 19.200MHz | ±0.50%              | ±0.30%                         | -40°C to 85°C               | Consumer/Industrial | SMD   |

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| CSTNE19M2VH3L000R0<br><span>In Production</span> <span>Recommended</span> | 19.200MHz | ±0.07%              | ±0.11%                         | -40°C to 85°C               | Consumer/Industrial | SMD   |
| CSTNE19M6V510000R0<br><span>Under development</span>                      | 19.660MHz | ±0.50%              | ±0.30%                         | -40°C to 85°C               | Consumer/Industrial | SMD   |
| CSTNE19M6V530000R0<br><span>In Production</span> <span>Recommended</span> | 19.660MHz | ±0.50%              | ±0.30%                         | -40°C to 85°C               | Consumer/Industrial | SMD   |
| CSTNE19M8V530000R0<br><span>In Production</span> <span>Recommended</span> | 19.800MHz | ±0.50%              | ±0.30%                         | -40°C to 85°C               | Consumer/Industrial | SMD   |
| CSTNE20M0V510000R0<br><span>Under development</span>                      | 20.000MHz | ±0.50%              | ±0.30%                         | -40°C to 85°C               | Consumer/Industrial | SMD   |
| CSTNE20M0V51C000R0<br><span>Under development</span>                      | 20.000MHz | ±0.50%              | ±0.30%                         | -40°C to 125°C              | Automotive          | SMD   |
| CSTNE20M0V51Z000R0<br><span>Under development</span>                      | 20.000MHz | ±0.50%              | ±0.30%                         | -40°C to 125°C              | Consumer/Industrial | SMD   |
| CSTNE20M0V530000R0<br><span>In Production</span> <span>Recommended</span> | 20.000MHz | ±0.50%              | ±0.30%                         | -40°C to 85°C               | Consumer/Industrial | SMD   |
| CSTNE20M0V53C000R0<br><span>In Production</span> <span>Recommended</span> | 20.000MHz | ±0.50%              | ±0.15%                         | -40°C to 125°C              | Automotive          | SMD   |
| CSTNE20M0V53Z000R0<br><span>In Production</span> <span>Recommended</span> | 20.000MHz | ±0.50%              | ±0.30%                         | -40°C to 125°C              | Consumer/Industrial | SMD   |
| CSTNE20M0VH3C000R0<br><span>In Production</span> <span>Recommended</span> | 20.000MHz | ±0.07%              | ±0.13%                         | -40°C to 125°C              | Automotive          | SMD   |
| CSTNE20M0VH3L000R0<br><span>In Production</span> <span>Recommended</span> | 20.000MHz | ±0.07%              | ±0.11%                         | -40°C to 85°C               | Consumer/Industrial | SMD   |
| CSTNE8M00G520000R0<br><span>Under development</span>                      | 8.000MHz  | ±0.50%              | ±0.20%                         | -40°C to 85°C               | Consumer/Industrial | SMD   |
| CSTNE8M00G52A000R0<br><span>Under development</span>                      | 8.000MHz  | ±0.50%              | ±0.20%                         | -40°C to 125°C              | Automotive          | SMD   |
| CSTNE8M00G52Z000R0<br><span>Under development</span>                      | 8.000MHz  | ±0.50%              | ±0.20%                         | -40°C to 125°C              | Consumer/Industrial | SMD   |

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|---------------------------------------------------------------------------|-----------|---------------------|--------------------------------|-----------------------------|---------------------|-------|
| CSTNE8M00G550000R0<br><span>In Production</span> <span>Recommended</span> | 8.000MHz  | ±0.50%              | ±0.20%                         | -40°C to 85°C               | Consumer/Industrial | SMD   |
| CSTNE8M00G55A000R0<br><span>In Production</span> <span>Recommended</span> | 8.000MHz  | ±0.50%              | ±0.20%                         | -40°C to 125°C              | Automotive          | SMD   |
| CSTNE8M00G55Z000R0<br><span>In Production</span> <span>Recommended</span> | 8.000MHz  | ±0.50%              | ±0.20%                         | -40°C to 125°C              | Consumer/Industrial | SMD   |
| CSTNE8M00GH5C000R0<br><span>In Production</span> <span>Recommended</span> | 8.000MHz  | ±0.07%              | ±0.13%                         | -40°C to 125°C              | Automotive          | SMD   |
| CSTNE8M00GH5L000R0<br><span>In Production</span> <span>Recommended</span> | 8.000MHz  | ±0.07%              | ±0.11%                         | -40°C to 85°C               | Consumer/Industrial | SMD   |
| CSTNE8M19G550000R0<br><span>In Production</span> <span>Recommended</span> | 8.192MHz  | ±0.50%              | ±0.20%                         | -40°C to 85°C               | Consumer/Industrial | SMD   |
| CSTNE8M38G520000R0<br><span>Under development</span>                      | 8.388MHz  | ±0.50%              | ±0.20%                         | -40°C to 85°C               | Consumer/Industrial | SMD   |
| CSTNE8M38G52A000R0<br><span>Under development</span>                      | 8.388MHz  | ±0.50%              | ±0.20%                         | -40°C to 125°C              | Automotive          | SMD   |
| CSTNE8M38G550000R0<br><span>In Production</span> <span>Recommended</span> | 8.388MHz  | ±0.50%              | ±0.20%                         | -40°C to 85°C               | Consumer/Industrial | SMD   |
| CSTNE8M38G55A000R0<br><span>In Production</span> <span>Recommended</span> | 8.388MHz  | ±0.50%              | ±0.20%                         | -40°C to 125°C              | Automotive          | SMD   |
| CSTNE8M50G550000R0<br><span>In Production</span> <span>Recommended</span> | 8.500MHz  | ±0.50%              | ±0.20%                         | -40°C to 85°C               | Consumer/Industrial | SMD   |
| CSTNE9M00G520000R0<br><span>Under development</span>                      | 9.000MHz  | ±0.50%              | ±0.20%                         | -40°C to 85°C               | Consumer/Industrial | SMD   |
| CSTNE9M00G550000R0<br><span>In Production</span> <span>Recommended</span> | 9.000MHz  | ±0.50%              | ±0.20%                         | -40°C to 85°C               | Consumer/Industrial | SMD   |
| CSTNE9M21G520000R0<br><span>Under development</span>                      | 9.210MHz  | ±0.50%              | ±0.20%                         | -40°C to 85°C               | Consumer/Industrial | SMD   |
| CSTNE9M60GH5L000R0<br><span>In Production</span> <span>Recommended</span> | 9.600MHz  | ±0.07%              | ±0.11%                         | -40°C to 85°C               | Consumer/Industrial | SMD   |

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|----------------------------------------------------------------|-----------|---------------------|--------------------------------|-----------------------------|---------------------|-------|
| CSTNE9M83G52000R0<br><small>Under development</small>          | 9.830MHz  | ±0.50%              | ±0.20%                         | -40°C to 85°C               | Consumer/Industrial | SMD   |
| CSTNE9M83GH5L000R0<br><small>In Production Recommended</small> | 9.830MHz  | ±0.07%              | ±0.11%                         | -40°C to 85°C               | Consumer/Industrial | SMD   |
| CSTNE9M84G52A000R0<br><small>Under development</small>         | 9.843MHz  | ±0.50%              | ±0.20%                         | -40°C to 125°C              | Automotive          | SMD   |
| CSTNR4M00GH5C000R0<br><small>In Production Recommended</small> | 4.000MHz  | ±0.07%              | ±0.13%                         | -40°C to 125°C              | Automotive          | SMD   |
| CSTNR4M00GH5L000R0<br><small>In Production Recommended</small> | 4.000MHz  | ±0.07%              | ±0.11%                         | -20°C to 85°C               | Consumer/Industrial | SMD   |
| CSTNR4M91GH5L000R0<br><small>In Production Recommended</small> | 4.915MHz  | ±0.07%              | ±0.11%                         | -20°C to 85°C               | Consumer/Industrial | SMD   |
| CSTNR5M00GH5C000R0<br><small>In Production Recommended</small> | 5.000MHz  | ±0.07%              | ±0.13%                         | -40°C to 125°C              | Automotive          | SMD   |
| CSTNR5M00GH5L000R0<br><small>In Production Recommended</small> | 5.000MHz  | ±0.07%              | ±0.11%                         | -20°C to 85°C               | Consumer/Industrial | SMD   |
| CSTNR6M00GH5C000R0<br><small>In Production Recommended</small> | 6.000MHz  | ±0.07%              | ±0.13%                         | -40°C to 125°C              | Automotive          | SMD   |
| CSTNR6M00GH5L000R0<br><small>In Production Recommended</small> | 6.000MHz  | ±0.07%              | ±0.11%                         | -20°C to 85°C               | Consumer/Industrial | SMD   |
| CSTNR7M37GH5L000R0<br><small>In Production Recommended</small> | 7.370MHz  | ±0.07%              | ±0.11%                         | -20°C to 85°C               | Consumer/Industrial | SMD   |

## Attention

1. This catalog is downloaded from the website of Murata Manufacturing Co., Ltd. Therefore, it's specifications are subject to change or our products in it may be discontinued without advance notice. Please check with our sales representatives or product engineers before ordering.
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