

ORDER GUIDE

CYLINDRICAL CRYSTALS IN DIP & SMD TYPE

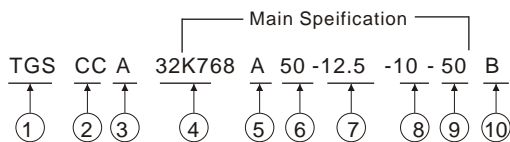
HOW TO ORDER

When inquiring or ordering TGS Cylindrical Crystals, please mention part number and package type to assure correct specification and prompt delivery services.

For special using conditions, more detailed specifications should be offered, if more practical applications, etc., are specified, the most suitable products can be introduced.

When load capacitance's, etc., are unclear for crystal units, the result will be more advantageous if the circuit being adopted or the actual device is shown to us. There can be manufacturing limits for some types, frequencies, temperature characteristics, operating conditions, and soon.

GENERAL PART NO. GUIDE KHz SERIES



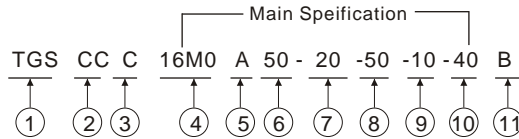
- ① Manufacturer's Trade Mark
- ② Cylindrical Crystals
- ③ TGS Series No.
- ④ Frequency Range in KHz
- ⑤ Oscillators Mode
- ⑥ Frequency Tolerance
- ⑦ Load Capacitance
- ⑧ Operating Temperature Range
- ⑨ Equivalent Series Resistance (ESR)
- ⑩ Package

e.g. Full P/N.: TGS CCA32K768A50-12.5-10-50 B
Short P/N.: CCA32K768A12.5B (Blank =Standard,
▲ Symbol for standard spec. in specification List)

MARKING GUIDE FOR ALL CC SERIES

Mark	Explanation
32768	Line 1: Frequency Range in KHz or MHz for CCC, CCME & CCMF Series.

GENERAL PART NO. GUIDE FOR MHz SERIES



- ① Manufacturer's Trade Mark
- ② Cylindrical Crystals
- ③ TGS Series No.
- ④ Frequency Range in MHz
- ⑤ Oscillators Mode
- ⑥ Frequency Tolerance
- ⑦ Load Capacitance
- ⑧ Frequency Stability Vs Temperature Range
- ⑨ Operating Temperature Range
- ⑩ Equivalent Series Resistance (ESR)
- ⑪ Package

e.g. Full P/N.: TGS CCC 16M0A50-20-50-10-40 B
Short P/N.: CCC 16M0A20B (Blank =Standard,
▲ Symbol for standard spec. in specification List)

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APPLICATIONS

- Telephones
- Transceivers
- Facsimile Machines
- Television Sets
- VCR/VTR sets
- VCD/DVD Players
- CD Players
- Car Stereo Systems
- VHF/UHF Transmitters/Receivers
- Cordless Telephone
- Pagers
- LAN Equipment
- CATV Sets
- G.P.S.
- Bluetooth
- IR Remote Controls

Memo: