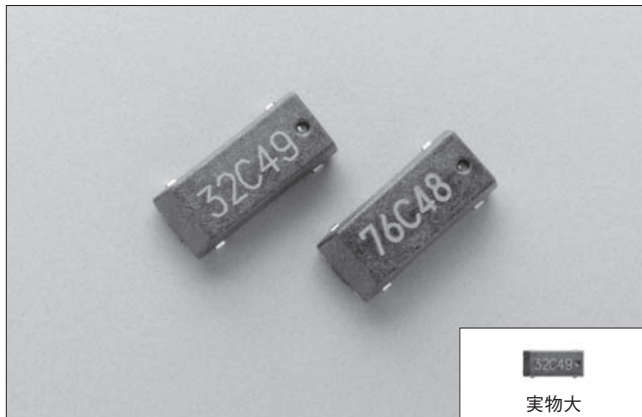


TUNING FORK CRYSTAL UNITS (SMD • Plastic Package)

CM200C • CM250C

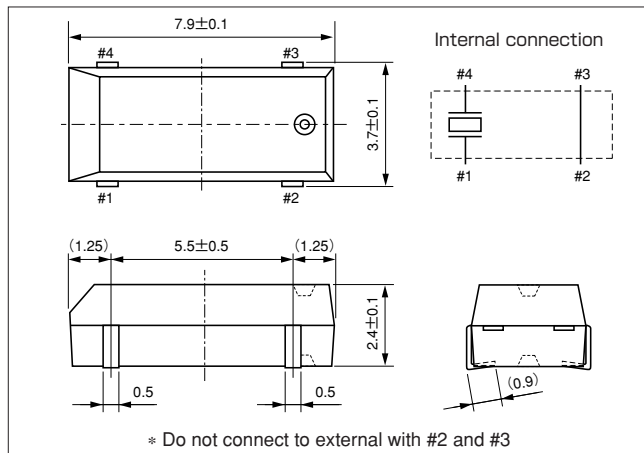
3000pcs/reel



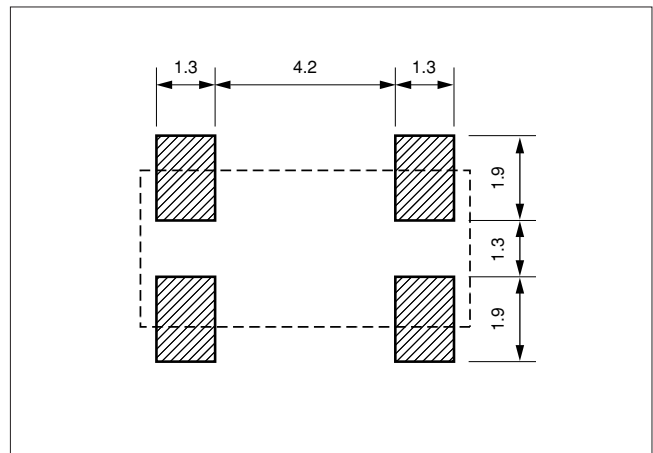
FEATURES

- Embedded with heat resistant cylinder type crystal bring highly stable characteristics.
- Automatic mounting and reflowable type.
- Most appropriate for clock source for portable and automotive equipment with low power consumption.

DIMENSION [mm]



SOLDER PAD LAYOUT [mm]



STANDARD SPECIFICATIONS

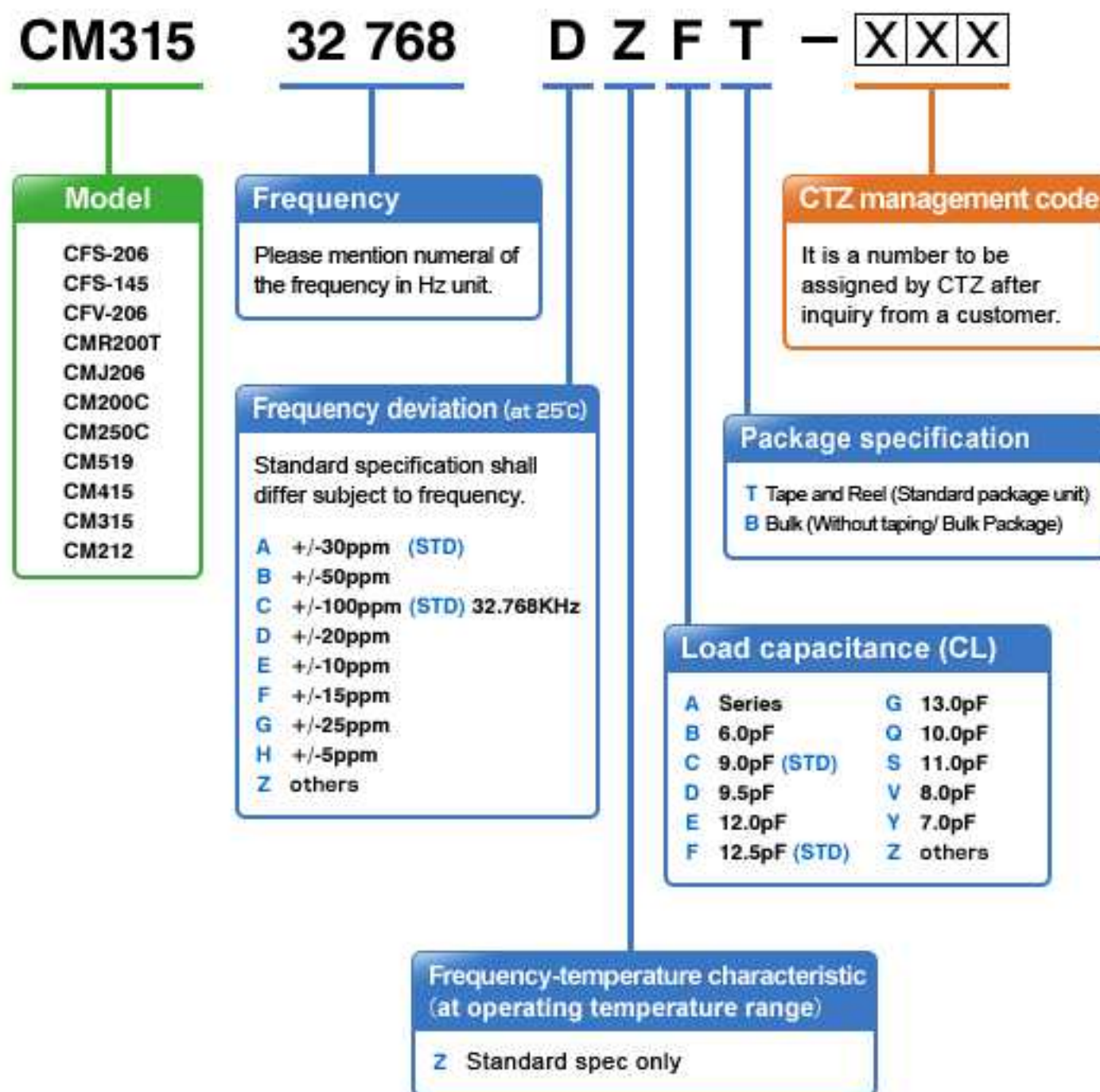
Item	Model	CM200C	CM250C	Conditions
Nominal Frequency	f ₀	32.768kHz	30kHz~100kHz	Need to contact us for the available frequency in CM250C
Frequency Tolerance	△ f/f ₀	±20ppm	±30ppm	at 25℃
Load capacitance	C _L	12.5pF		Need to specify your requirement
Operating Temperature Range	T _{OPR}	-40℃~+85℃		
Storage Temperature Range	T _{STR}	-55℃~+125℃		
Turnover Temperature	T _M	25℃±5℃		See figure 2 in P4
Temperature Coefficient	β	-0.034±0.006ppm/℃ ²		
Motional (series) resistance	R ₁	50K Ω Max.		at 25℃
Level of drive	D _L	1 μW Max.		
Aging (first year)	△ f/f ₀	±3ppm Max.	±5ppm Max.	25℃±3℃
Quality Factor	Q	70000 Typ.	70000 ~ 100000 Typ.	Depend on frequency
Shunt capacitance	C ₀	1.35pF Typ.	0.8pF ~ 1.7pF Typ.	Depend on frequency

Quartz Crystal / Oscillator

Part Numbering System

Tuning Fork Crystal Units

• Example Part Number



- ▶ Quartz Crystal Blank
- ▶ Quartz Crystal / Oscillator
 - ▶ Quartz Crystal List
 - ▶ Crystal Oscillator List
 - ▶ In order to use the product correctly
 - ▶ Glossary
 - ▶ Packing specification
 - ▶ Notes
 - ▶ Type of cut crystal
 - ▶ Equivalent circuit of quartz crystal
 - ▶ Cutting direction and frequency Temperature characteristics
 - ▶ Test Circuit
 - ▶ Output waveform
 - ▶ Part Numbering System
- ▶ Ferroelectric Micro LCDs
- ▶ Transmissive LCOS
- ▶ Electronic Viewfinders
- ▶ Optical Communication Device Components
- ▶ Magnets
- ▶ Bearing Jewels
- ▶ Ceramic Parts
- ▶ Thin-film Submount
- ▶ Gyro Sensor
- ▶ Combustion Pressure