CFS-308, CFS-206, CFS-145



FEATURES:

- Because of their excellent shock resistance and low power consumption, the units are ideal for portable equipment.
- Features superior characteristics indigenous to tuning fork-type quartz crystal units.

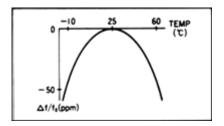
APPLICATIONS:

• Used as a clock source for communication equipment, AV equipment, OA equipment, measuring instruments and various types of clocks

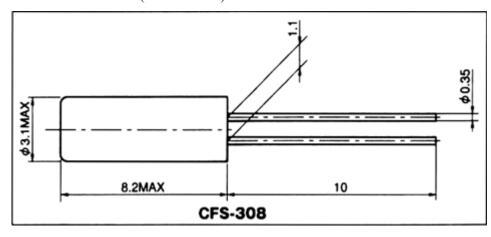
■ STANDARD SPECIFICATIONS

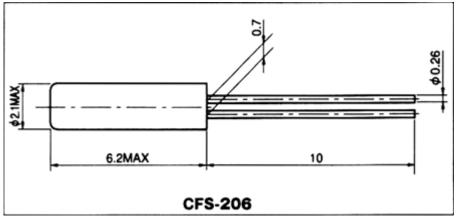
Item		CFS-308	CFS-206	CFS-145	Conditions
Nominal frequency	fo	32.768KHz			
Frequency tolerance	deltaf/fo	±20ppm			(25°C) Reference temperature
Frequency vs.Temperature Characteristics	deltaf/fo	See drawing			-10°C to +60°C
Turnover Temperature	Tm	$25^{\circ}\text{C} \pm 5^{\circ}\text{C}$			
Temperature coefficient	beta	-0.034 ± 0.006ppm/°C2			
Operating temperature range	Topr	-10°C to +60°C			
Storage temperature range	Tstg	-40°C to +85°C			
Quality factor	Q	90,000 TYP.	70,000 TYP	80,000 TYP.	
Equivalent series resistance	Rı	35K ohm MAX.		40K ohm MAX.	Reference temperature (25°C)
Load capacitance	Cl	12.5pF TYP.		8.0pF TYP.	Please specify
Motional capacitance	C ₁	0.0035pF TYP.	0.0030pF TYP.	0.0025pF TYP.	
Shunt capacitance	C ₀	1.60pF TYP	1.35pF TYP.	1.00pF TYP.	
Capacitance ratio	gamma	460 TYP.	450 TYP.	400 TYP.	
Drive level	DL	1 μ W MAX.			
Insulation resistane	IR	500M ohm MIN.			$DC100V \pm 15V$
Aging (First year)	deltaf/fo	± 3ppm MAX.			25°C ± 3° C
Hermeticity of seal		1 x 10-2 μ Pa·m3 /s MAX.			
Shock resistance	± 5ppm MAX. Drop test of 3 times on a board from 75cm height or shock test of 3000G x 0.3ms x 1/2sin wave x 3 directions				

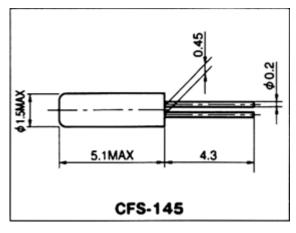
■ FREQUENCY vs TEMPERATURE CURVE



■ DIMENSIONS: (UNIT=mm)







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