



Distributor of Citizen Finedevice: Excellent Integrated System Limited
Datasheet of CM309E8.000MABJT - Crystal 8.0000MHz 30ppm 18pF 80 Ohm -10°C - 60°C

Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

Excellent Integrated System Limited

Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

[Citizen Finedevice](#)
[CM309E8.000MABJT](#)

For any questions, you can email us directly:

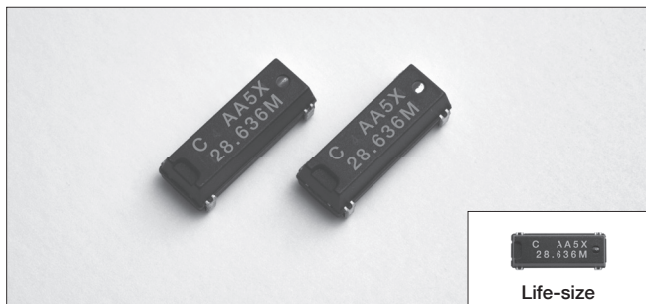
sales@integrated-circuit.com

AT-CUT CRYSTAL UNIT (SMD • Plastic Package)

RoHS compliant

CM309E

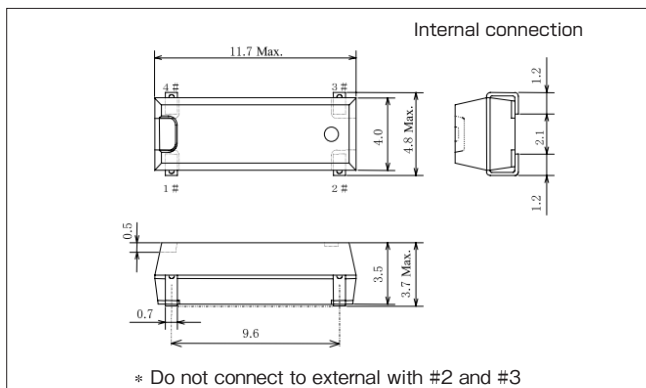
1000pcs/reel



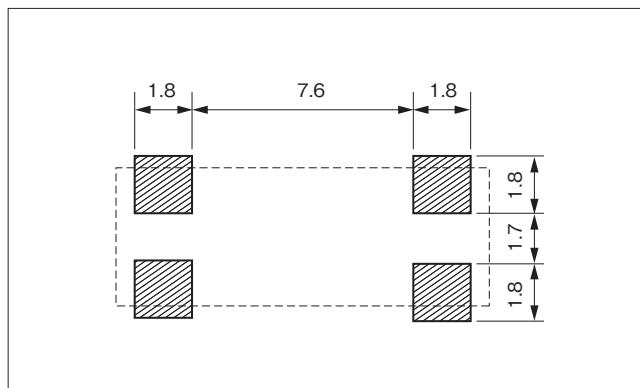
FEATURES

- Embedded with heat resistant cylinder type crystal bring highly stable characteristics.
- Automatic mounting and reflowable type.
- Suitable for various applications such as communication devices, AV devices, and measuring instruments.

DIMENSION [mm]



SOLDER PAD LAYOUT [mm]



STANDARD SPECIFICATIONS

Item	Model	CM309E	Conditions
Nominal Frequency	f ₀	4.000MHz~29.999MHz (Fundamental)	Need to contact us for the available frequency
		30.000MHz~64.000MHz (3rd Overtone)	
Frequency Tolerance	Δ f/f ₀	±30ppm	at 25°C
Frequency Tolerance over Operating Temperature Range	Δ f/f ₀	below 5.5MHz: ±50ppm	-10°C~+60°C See figure 3 in P4
		above 5.5MHz: ±30ppm	
Operating Temperature Range	T _{OPR}	-40°C~+85°C	
Storage Temperature Range	T _{STR}	-55°C~+125°C	
Motional (series) resistance	R ₁	Refer to the following table	at 25°C
Load capacitance	C _L	16.0pF, 18.0pF	Need to specify your requirement
Shunt capacitance	C ₀	5.0pF Max.	
Level of drive	DL	100 μW	
Insulation Resistance	I _R	500MΩ Min.	DC100V±15V
Aging (first year)	Δ f/f ₀	±5ppm Max.	25°C±3°C

MOTIONAL (SERIES) RESISTANCE (R₁)

Frequency Range	4.0MHz≤f ₀ <5.5MHz	5.5MHz≤f ₀ <6.0MHz	6.0MHz≤f ₀ <10.0MHz	10.0MHz≤f ₀ <12.0MHz	12.0MHz≤f ₀ <16.0MHz	16.0MHz≤f ₀ <30.0MHz	30.0MHz≤f ₀ <36.0MHz	36.0MHz≤f ₀ <64.0MHz
Mode	Fundamental	Fundamental	Fundamental	Fundamental	Fundamental	Fundamental	3rd Overtone	3rd Overtone
R ₁	150Ω Max.	100Ω Max.	80Ω Max.	60Ω Max.	50Ω Max.	40Ω Max.	100Ω Max.	80Ω Max.