LOW FREQUENCY CERAMIC SURFACE MOUNT MICROPROCESSOR CRYSTAL



RoHS compliant with exemption of Pb in glass (exempt per RoHS 2002/95/EC Annex (5))





11.8 x 5.5 x 1.9mm

Moisture Sensitivity Level (MSL) – This product is Hermetically Sealed and not Moisture Sensitive - MSL = N/A: Not Applicable

FEATURES:

- Low frequency in small size SMD
- 1.9mm height ideal for high density circuit boards
- Ceramic package offers excellent environmental & heat resistance
- Extended temperature -40°C to +85°C for industrial applications
- Suitable for RoHS compliant reflow

> APPLICATIONS:

- Wide range in communication & measuring equipment
- Commercial & Industrial applications

STANDARD SPECIFICATIONS:

Parameters	Minimum	Typical	Maximum	Units	Notes
Eraguanay Panga	3.500		30.000	MHz	Fundamental, AT
Frequency Range	30.000		70.000		3 rd Overtone, AT
Operation Mode	Fundam	nental or 3 rd Overtone			
Operating Temperature	-40		+85	°C	Guaranteed oscillation only. For tighter freq. stability over temp (option D), see stability options below
Storage Temperature	-55		+125	°C	
Frequency Tolerance @+25°C	-50		+50	ppm	See options
Frequency Stability over the Operating Temperature -10 °C to +60 °C (ref. to +25 °C)	-50		+50	nnm	Standard for below 6.0MHz (-10 °C to +60 °C) See options for other temperature
	-30		+30	ppm	Standard for 6.0MHz and above; (-10 °C to +60 °C) See options for other temperature
Equivalent series resistance (R1)	Se	e table 1 bel	ow	Ω	
Shunt capacitance (C0)			7	pF	
Load capacitance (CL)		18		pF	See options
Drive Level			100	μW	
Aging@25°C±3°C			±5	ppm	First year
Insulation Resistance	500			ΜΩ	@ 100Vdc ± 15V

Table 1

Frequency Ranges	Operation mode	ESR (max)
3.200MHz ~ 3.499MHz	Fundamental	200 Ω
3.500MHz ~ 3.999MHz	Fundamental	140 Ω
4.000MHz ~ 4.399MHz	Fundamental	120 Ω
4.400MHz ~ 4.899MHz	Fundamental	100 Ω
4.900MHz ∼ 5.999MHz	Fundamental	80 Ω
6.000MHz ∼ 6.999MHz	Fundamental	60 Ω
$7.000 \mathrm{MHz} \sim 7.999 \mathrm{MHz}$	Fundamental	50 Ω
$8.000 \mathrm{MHz} \sim 10.999 \mathrm{MHz}$	Fundamental	45 Ω
$11.000 { m MHz} \sim 11.999 { m MHz}$	Fundamental	40 Ω
$12.000 { m MHz} \sim 14.999 { m MHz}$	Fundamental	35 Ω
$15.000 \mathrm{MHz} \sim 36.000 \mathrm{MHz}$	Fundamental	30 Ω
$27.000 { m MHz} \sim 70.000 { m MHz}$	3rd OT	100Ω





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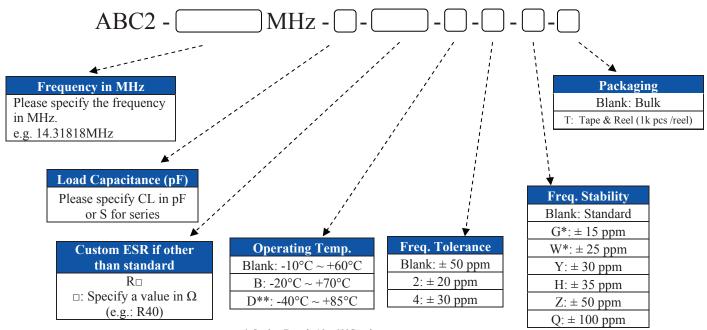
RoHS compliant with exemption of Pb in glass (exempt per RoHS 2002/95/EC Annex (5))





11.8 x 5.5 x 1.9mm

OPTIONS AND PART IDENTIFICATION: (Left blank if standard)



^{*} Option B and -10 ~60°C only



^{**} Option Y, Z and Q only for F \geq 6.0MHz, Option Z and Q only for F<6.0MHz

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ABC2

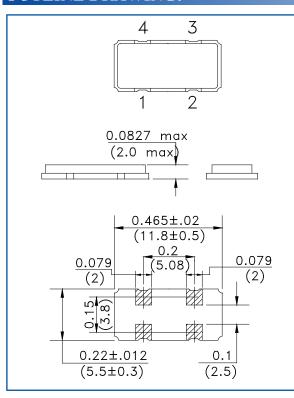
RoHS compliant with exemption of Pb in glass (exempt per RoHS 2002/95/EC Annex (5))

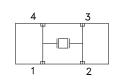




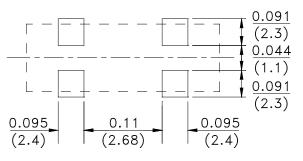
11.8 x 5.5 x 1.9mm

OUTLINE DRAWING:





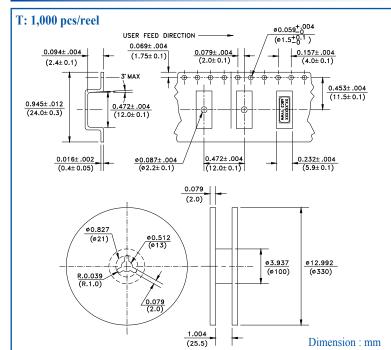
RECOMMENDED LAND PATTERN



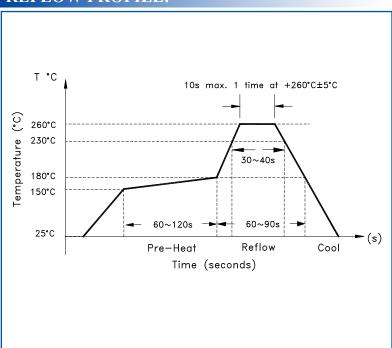
Sealing Method = Glass Sealing

Dimension: Inches (mm)

► TAPE & REEL:



REFLOW PROFILE:





Need a test socket for the ABC2 Series? To view compatible **PRECISION TEST & BURN-IN SOCKETS** for these parts, **click here. P/N AXS-1155-04-01**

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