

ABM10-27.000MHZ-D30-T3 Datasheet

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DiGi Electronics Part Number	ABM10-27.000MHZ-D30-T3-DG
Manufacturer	Abracon LLC
Manufacturer Product Number	ABM10-27.000MHZ-D30-T3
Description	CRYSTAL 27.0000MHZ 10PF SMD
Detailed Description	27 MHz ±20ppm Crystal 10pF 100 Ohms 4-SMD, No Lead

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Purchase and inquiry

Manufacturer Product Number:

ABM10-27.000MHZ-D30-T3

Series:

ABM10

Type:

MHz Crystal

Frequency Stability:

±30ppm

Load Capacitance:

10pF

Operating Mode:

Fundamental

Ratings:

-

Package / Case:

4-SMD, No Lead

Height - Seated (Max):

0.028" (0.70mm)

Manufacturer:

Abracon LLC

Product Status:

Active

Frequency:

27 MHz

Frequency Tolerance:

±20ppm

ESR (Equivalent Series Resistance):

100 Ohms

Operating Temperature:

-40°C ~ 85°C

Mounting Type:

Surface Mount

Size / Dimension:

0.098" L x 0.079" W (2.50mm x 2.00mm)

Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Unaffected

HTSUS:

8541.60.0060

Moisture Sensitivity Level (MSL):

Not Applicable

ECCN:

EAR99

CERAMIC SMD ULTRA MINIATURE QUARTZ CRYSTAL

ABM10-27.000MHZ-D30-T3 Abracon LLC CRYSTAL 27.000MHZ 10PF SMD



2.5 x 2.0 x 0.5 mm

ABM10

Moisture Sensitivity Level (MSL) – This product is Hermetically Sealed and not Moisture Sensitive - MSL = N/A: Not Applicable **Pb** | RoHS/RoHS II Compliant

FEATURES:

- 2.5 x 2.0 x 0.5mm ultra miniature package
- Suitable for RoHS reflow profile
- Tight stability available ± 10 ppm over -10 to +60°C
- Seam sealed ceramic package assures high precision and reliability

APPLICATIONS:

- Blue-tooth, Wireless applications
- Computers, Modems, Microprocessors
- Communication, Test equipment
- High density applications
- PCMCIA
- Portable radios and MP3 players

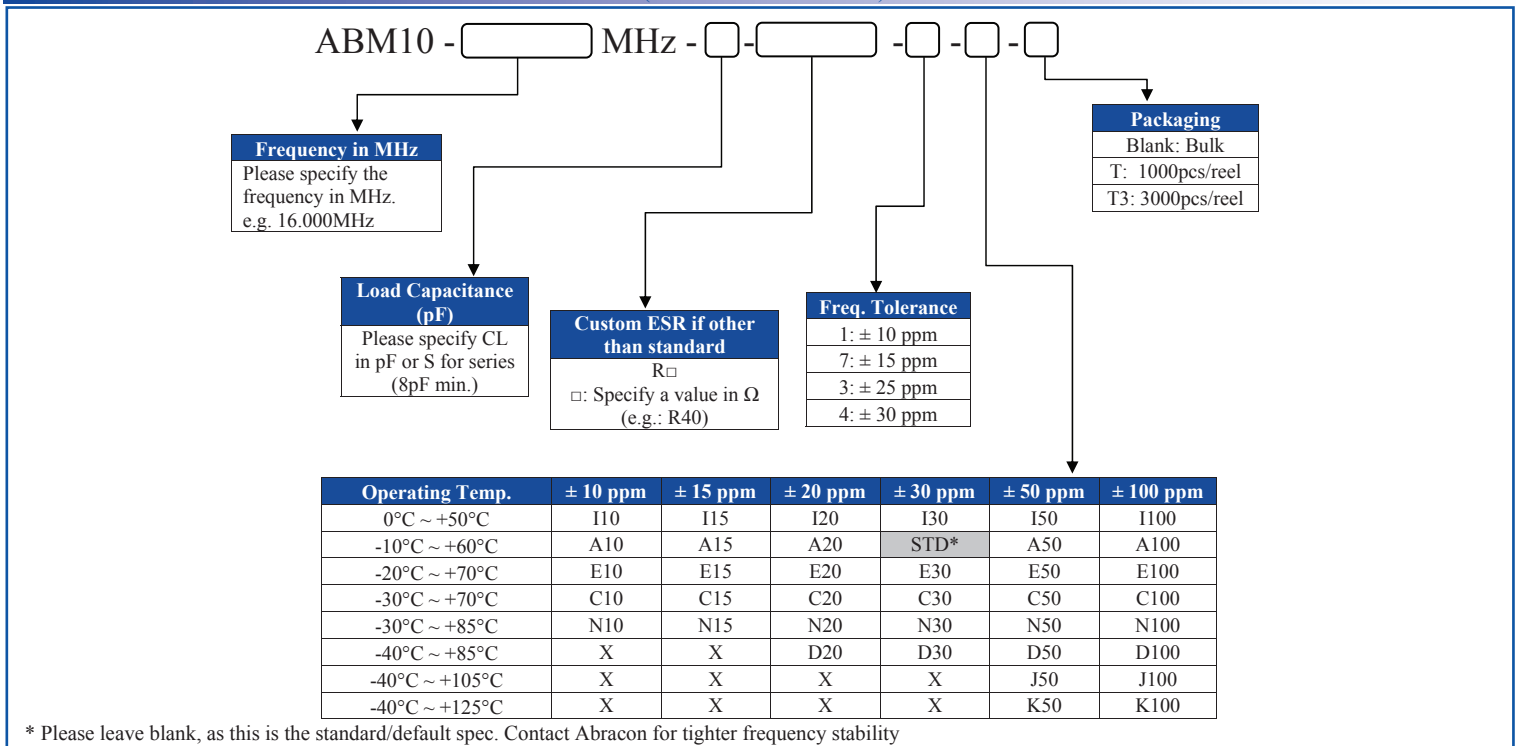
STANDARD SPECIFICATIONS:

Parameters	Minimum	Typical	Maximum	Units	Notes
Frequency Range	12.000		55.000	MHz	Fundamental
Operation Mode	Fundamental				
Operating Temperature	-10		+60	°C	See options
Storage Temperature	-40		+125	°C	
Frequency Tolerance @+25°C			± 20	ppm	See options
Frequency Stability over the Operating Temperature (ref. to +25°C)			± 30	ppm	See options
Equivalent series resistance (R1)	See table 1 below				
Shunt capacitance (C0)			7	pF	
Load capacitance (CL)	10			pF	Standard (See options if other than STD)
Drive Level		10	100	μ W	
Aging@25°C ± 3 °C			± 5	ppm	First year
Insulation Resistance	500			M Ω	@ 100Vdc ± 15 V

Table 1 – standard ESR

Frequency (MHz)	ESR(Ω) max.
12.000 – 15.999	250
16.000 – 19.999	150
20.000 – 29.999	100
30.000 – 55.000	70

OPTIONS & PART IDENTIFICATION: (Left blank if standard)



* Please leave blank, as this is the standard/default spec. Contact Abracon for tighter frequency stability

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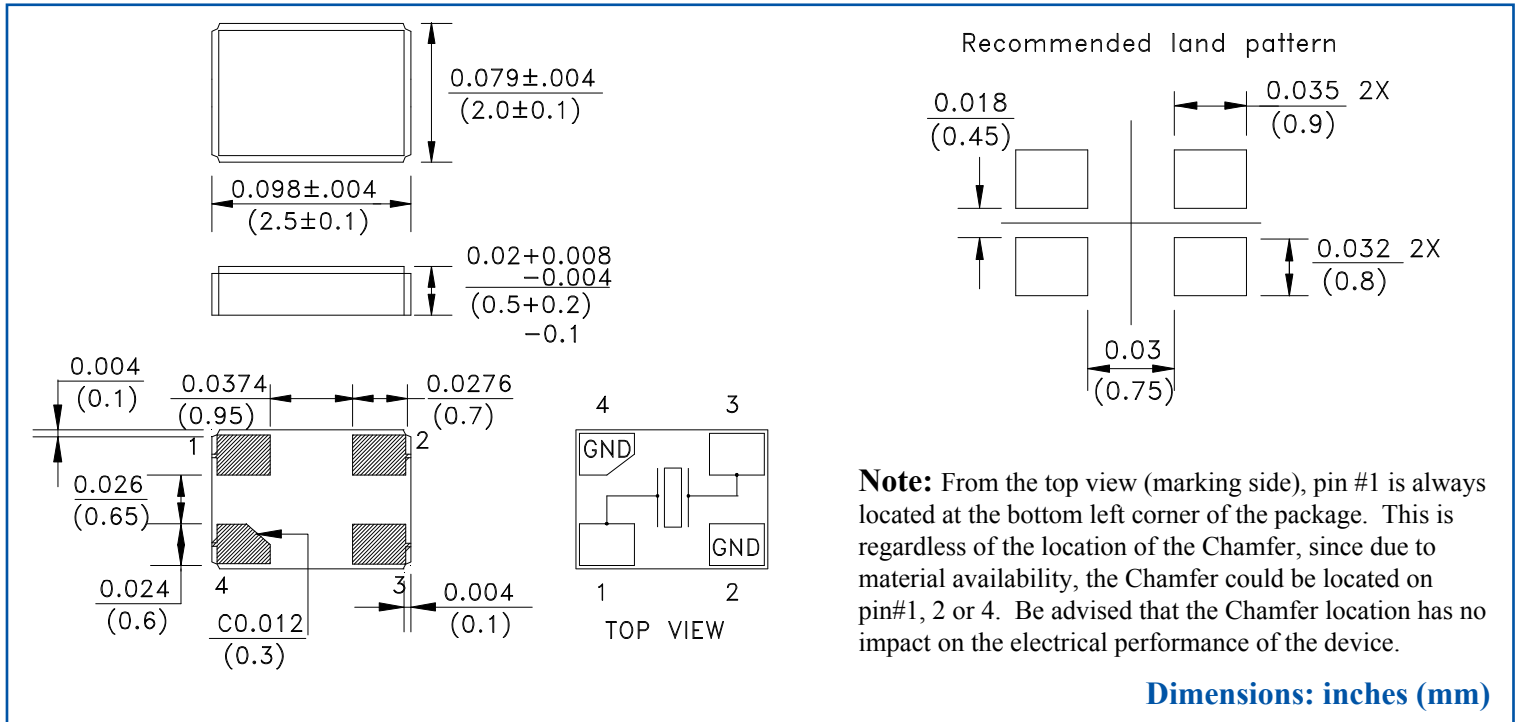


2.5 x 2.0 x 0.5 mm

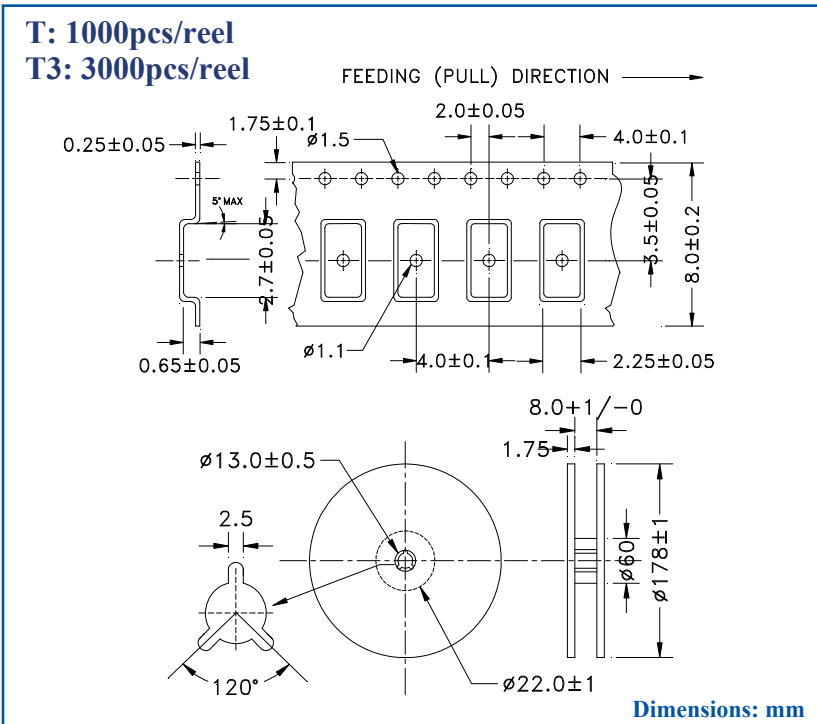
ABM10

RoHS/RoHS II Compliant

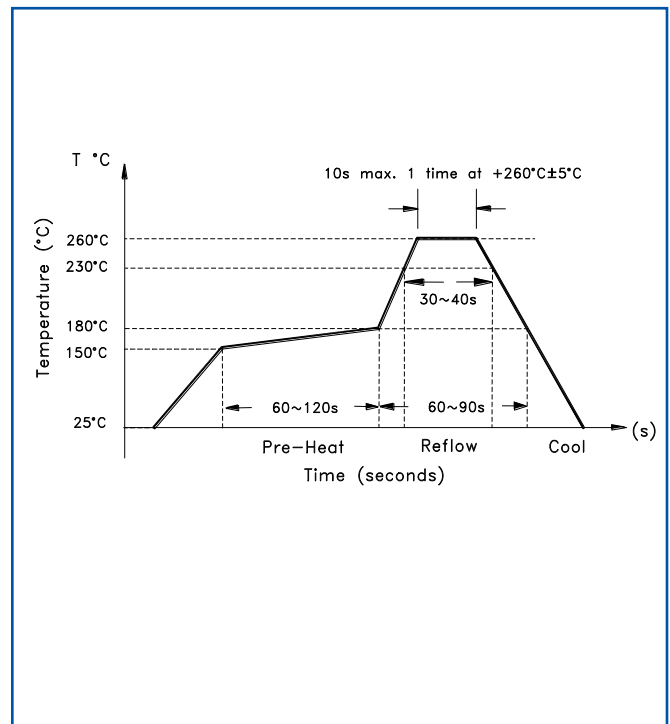
OUTLINE DRAWING:



TAPE & REEL:



REFLOW PROFILE:



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