

Engineering/Process Change Notice

ECN/PCN No.: 3976

| For Manufacturer | | | | | | | |
|-------------------------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------------------|---------------------------|--|--|--|--|
| Product Description: Vibration Resistant Crystal | Abracon Part Number / Part Series: FC3VR | □ Documentation only □ ECN ∞ EOL | ⊠ Series □ Part Number | | | | |
| Affected Revision: D | New Revision: EOL | Application: | □ Safety ⊠ Non-Safety | | | | |
| Prior to Change: FC3VR Rev D 07/23/2021 | | | | | | | |
| After Change: | | | | | | | |
| EOL | | | | | | | |
| Cause/Reason for Change: Discontinuation of manufacturing capa | bility due to material availability. | | | | | | |
| | Change Plan | | | | | | |
| Effective Date: | Additional Remarks: | | | | | | |
| Immediate | None | | | | | | |
| Change Declaration: | | | | | | | |
| Issued Date: | Issued By: | Issued Department: | | | | | |
| 9/30/2021 | Stephanie Lopez | Engineering | | | | | |
| Approval: | Approval: | Approval: | | | | | |
| Thomas Culhane Engineering Director | Reuben QuintanillaYing HuangQuality DirectorPurchasing Director | | | | | | |
| | For Abracon EOL only | r drendsnig bi | | | | | |
| Last Time Buy (if applicable): | | her / Part Series: | | | | | |
| None | | | | | | | |
| Additional Approval: | Additional Approval: | Additional Approval: | | | | | |
| | Customer Approval (If Applicable) | | | | | | |
| Qualification Status: | | | | | | | |
| | Approved D Not accepted | | | | | | |
| Note: It is considered approved if there is n | o feedback from the customer 1 month afte | r ECN/PCN is released. | | | | | |
| Customer Part Number: Customer Project: | | | | | | | |
| Company Name: | Company Representative: | Representative Signature: | : | | | | |
| | | | | | | | |
| Customer Remarks: | | | | | | | |
| | | | | | | | |

Form #7020 | Rev. G | Effective: 02/22/2021 |

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Ecliptek









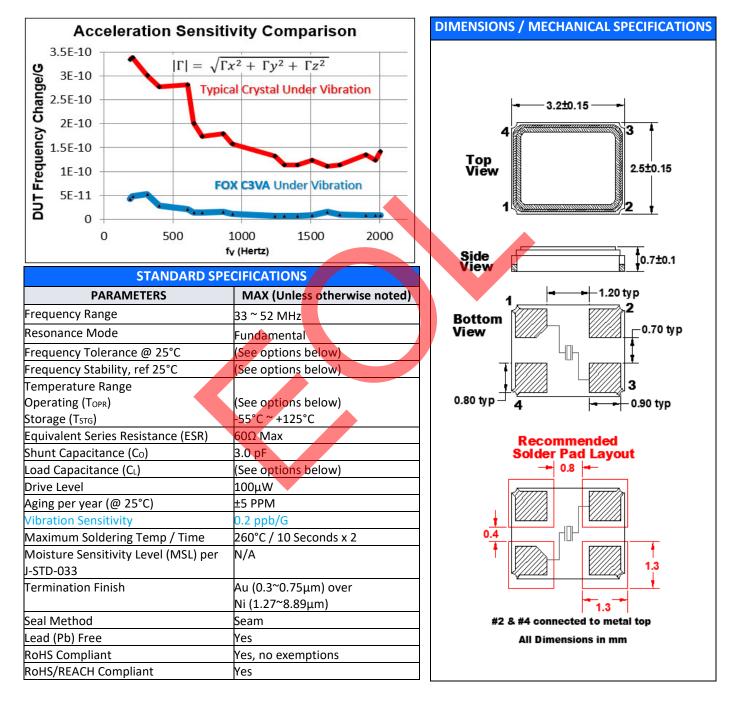
FC3VR





Features

- Low G sensitivity
- Tolerances down to ±10 ppm
- Custom application inquiries invited
- Patented technology



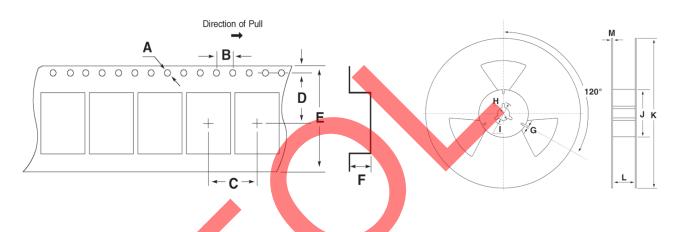
3.2mm x 2.5mm



Vibration Resistant Crystal

| AVAILABLE OPERATING TEMPERATURES AND STABILITIES | | | | | | | | |
|--------------------------------------------------|---------|---------|---------|--------|--|--|--|--|
| Operating Temperature | ±20 PPM | ±25 PPM | ±30 PPM | ±50PPM | | | | |
| -20 ~ +70°C | 0 | 0 | 0 | 0 | | | | |
| -40 ~ +85°C | 0 | 0 | 0 | 0 | | | | |
| Key: O = Available. | | | | | | | | |

| TAPE SPECIFICATIONS (mm) | | | | REEL SPECIFICATIONS (mm) | | | | | | | | | |
|--------------------------|-----|-----|-----|--------------------------|-----|--------------------------------------------|-----|-----|-----|-----|------|-----|-----|
| Α | В | С | D | E | F | STD REEL QTY | G | Н | I | J | К | L | М |
| ø1.5 | 4.0 | 4.0 | 3.5 | 8.0 | 1.3 | - T3 = 3,000 Default -T1 = 1,000 | 2.0 | Ø13 | Ø21 | Ø80 | Ø180 | 9.0 | 2.0 |



| Available Options & Part Identification for Crystal Model C3VR ¹ Sample PN: FC3VREEGM40.0-T3 | | | | | | | | | |
|------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|----------------------------------|-----------------------------------------------------------------------------|--|--|
| F C3VR E E G M 40.0 -T3 | | | | | | | | | |
| <u>Fox</u> | <u>Model</u> <u>Number</u> | Tolerance B = ±50PPM C = ±30PPM D = ±25PPM E = ±20PPM F = ±15 PPM H = ±10 PPM | Stability B = ±50PPM C = ±30 PPM D = ±25 PPM E = ±20 PPM | Load Capacitance ² V = 7 pF D = 8 pF W = 9 pF E = 10 PF G = 12 pF J = 15 PF K = 16 PF | Operating Temperature F = -20 ~+70°C M = -40 ~ +85°C | <u>Frequency</u> <u>(MHz)</u> | Values Added Options Blank = Bulk T1 = 1,000 pcs T3 = 3,000 pcs | | |

¹ Not all frequency, tolerance, stability, load, and operating temperature combinations may be available.

² Listed load capacitances represent the most commonly used. Other load capacitances are available. Contact us for assistance

| Reliability Test Conditions | |
|----------------------------------------------|---------|
| Please contact Abracon Quality Assurance dep | artment |

FC3VR