

(0402 16V X7R 27nF  $\pm 20\%$ )

## Dimensions

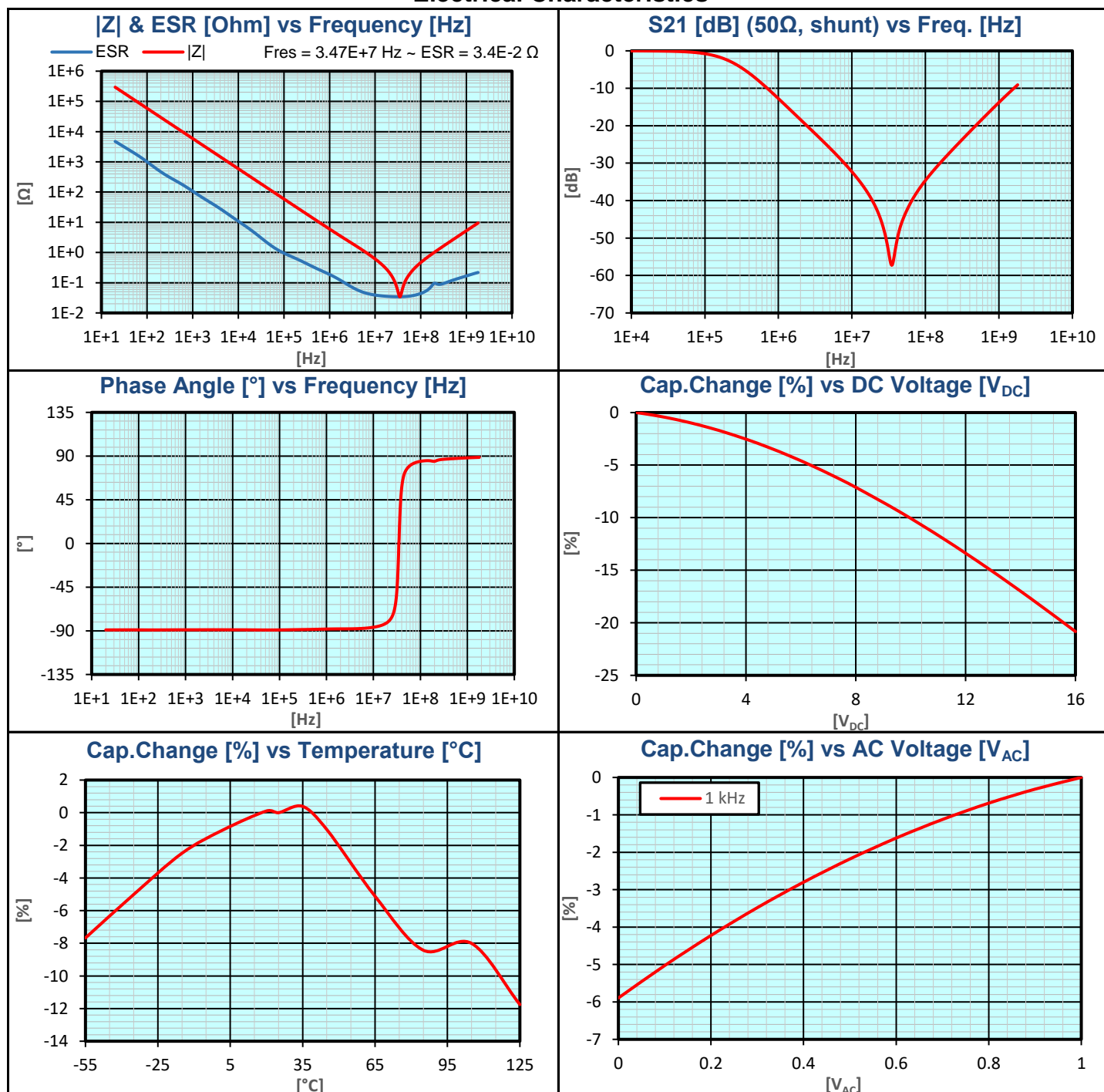


|        | millimetres     | inches            |
|--------|-----------------|-------------------|
| L      | $1 \pm 0.1$     | $0.039 \pm 0.004$ |
| W      | $0.5 \pm 0.1$   | $0.02 \pm 0.004$  |
| T max. | 0.56            | 0.022             |
| t      | $0.25 \pm 0.15$ | $0.01 \pm 0.006$  |

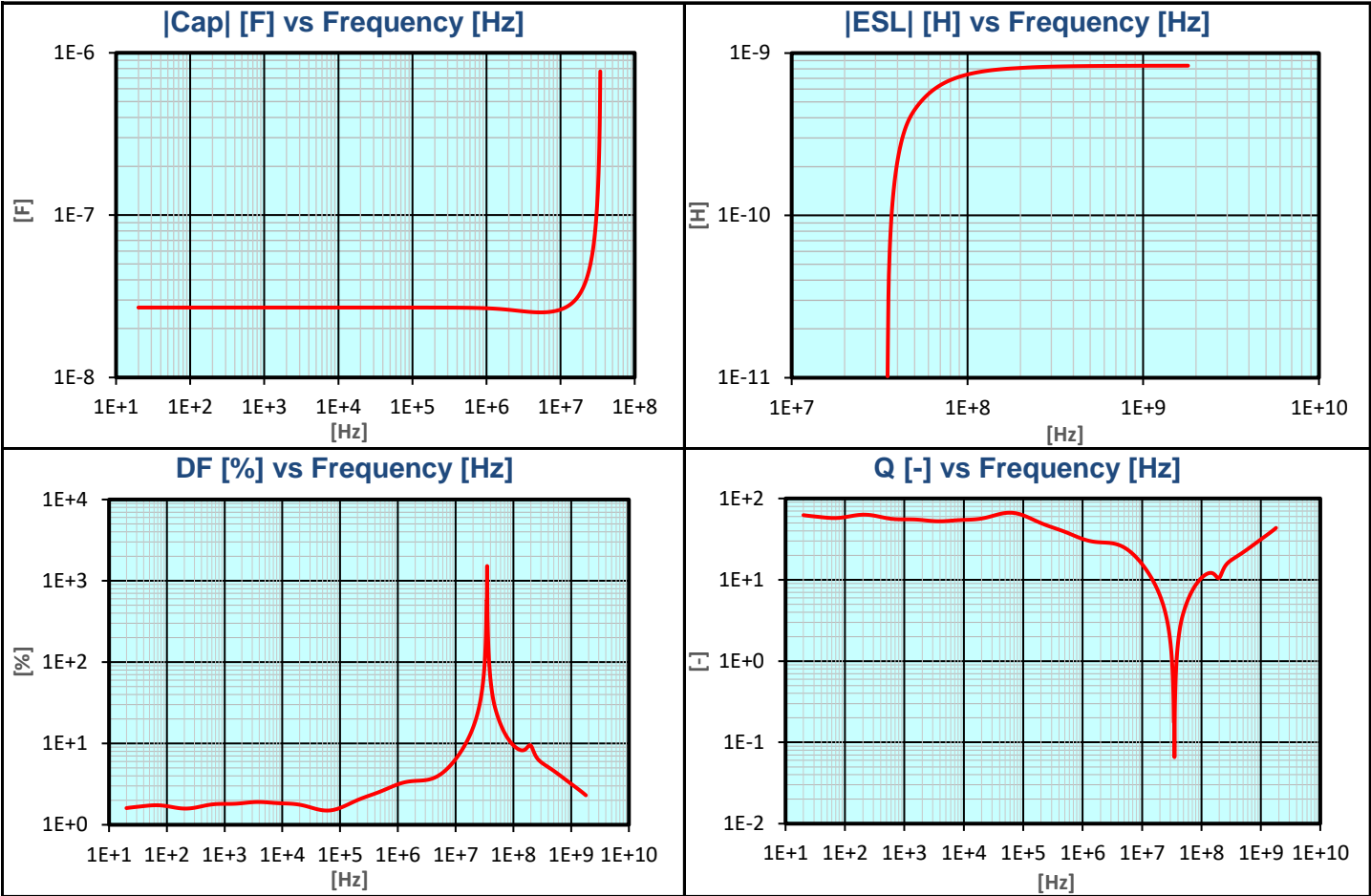
## Basic Specifications

| Item                  | Unit       | Spec.           | Conditions                    |
|-----------------------|------------|-----------------|-------------------------------|
| Capacitance           | nF         | 21.6 to 32.4    | @ 1 kHz, 1 Vrms               |
| DF                    | %          | 12.5 max.       | @ 1 kHz, 1 Vrms               |
| IR                    | G $\Omega$ | 37 min.         | @ 16 Vdc, t = 120 s           |
| DWV                   | Vdc        | 40              | @ I $\leq$ 50mA, t $\leq$ 5 s |
| Operating Temperature |            | -55°C to +125°C |                               |
| Dielectric            |            | X7R             |                               |
| AEC-Q200              |            | Not qualified   |                               |
| RoHS Compliant        |            | Yes             |                               |
| Termination           |            | Sn              |                               |

## Electrical Characteristics



Electrical Characteristics



# 0402YC273MAT2A Datasheet



(0402 16V X7R 27nF ±20%)

## How To Order

| 0805   | 5   | C                     | 103   | M   | A  | T   | 2  | A                                      |
|--|---|-----------------------|---|---|--|---|--|--|
| Size<br>(L" x W")  | Voltage<br>4V = 4<br>6.3V = 6<br>10V = Z<br>16V = Y<br>25V = 3<br>50V = 5<br>100V = 1<br>200V = 2<br>500V = 7 | Dielectric<br>X7R = C | Capacitance<br>Code (In pF)<br>2 Sig. Digits +<br>Number of Zeros | Capacitance<br>Tolerance<br>J = ± 5%*<br>K = ±10%<br>M = ± 20%<br><br>*≤1µF only,<br>contact factory for<br>additional values | Failure<br>Rate<br>A = Not<br>Applicable<br>4=Automotive | Terminations<br>T = Plated Ni and Sn<br>Z= FLEXITERM®**<br><br>*Optional termination<br><br>**See FLEXITERM®<br>X7R section | Packaging<br>2 = 7" Reel<br>4 = 13" Reel<br><br><b>Contact<br/>Factory For<br/>Multiples</b> | Special<br>Code<br>A = Std.<br>Product |
| NOTE: Contact factory for availability of Termination and Tolerance Options for Specific Part Numbers.<br>Contact factory for non-specified capacitance values.  |   |                       |   |   |  |   |  |  |
| NOTICE: Specifications are subject to change without notice. All statements, information and data given herein are beleived to be accurate and reliable, but are<br>presented without guarantee or responsibility of any kind, expressed or implied. Specifications are typical and may not apply to all applications. |   |                       |   |   |  |   |  |  |