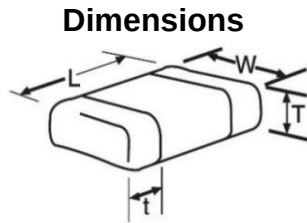


# 0805YC474MAT2A Datasheet

(0805 16V X7R 470nF ±20%)

To download data and simulation models visit: **SpiCAT** ONLINE TOOL

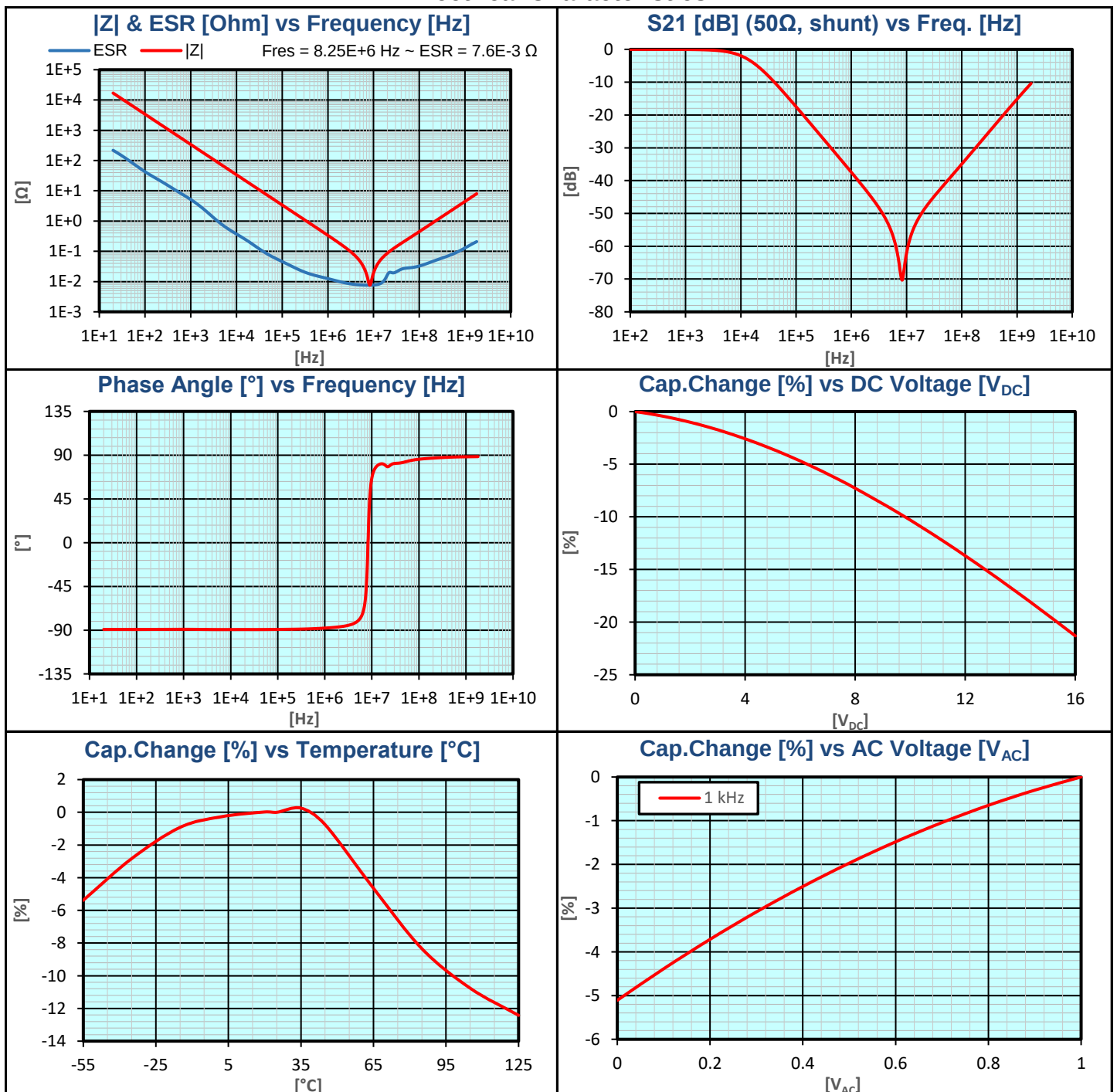


|        | millimetres | inches        |
|--------|-------------|---------------|
| L      | 2.01 ± 0.2  | 0.079 ± 0.008 |
| W      | 1.25 ± 0.2  | 0.049 ± 0.008 |
| T max. | 1.4         | 0.055         |
| t      | 0.5 ± 0.25  | 0.02 ± 0.01   |

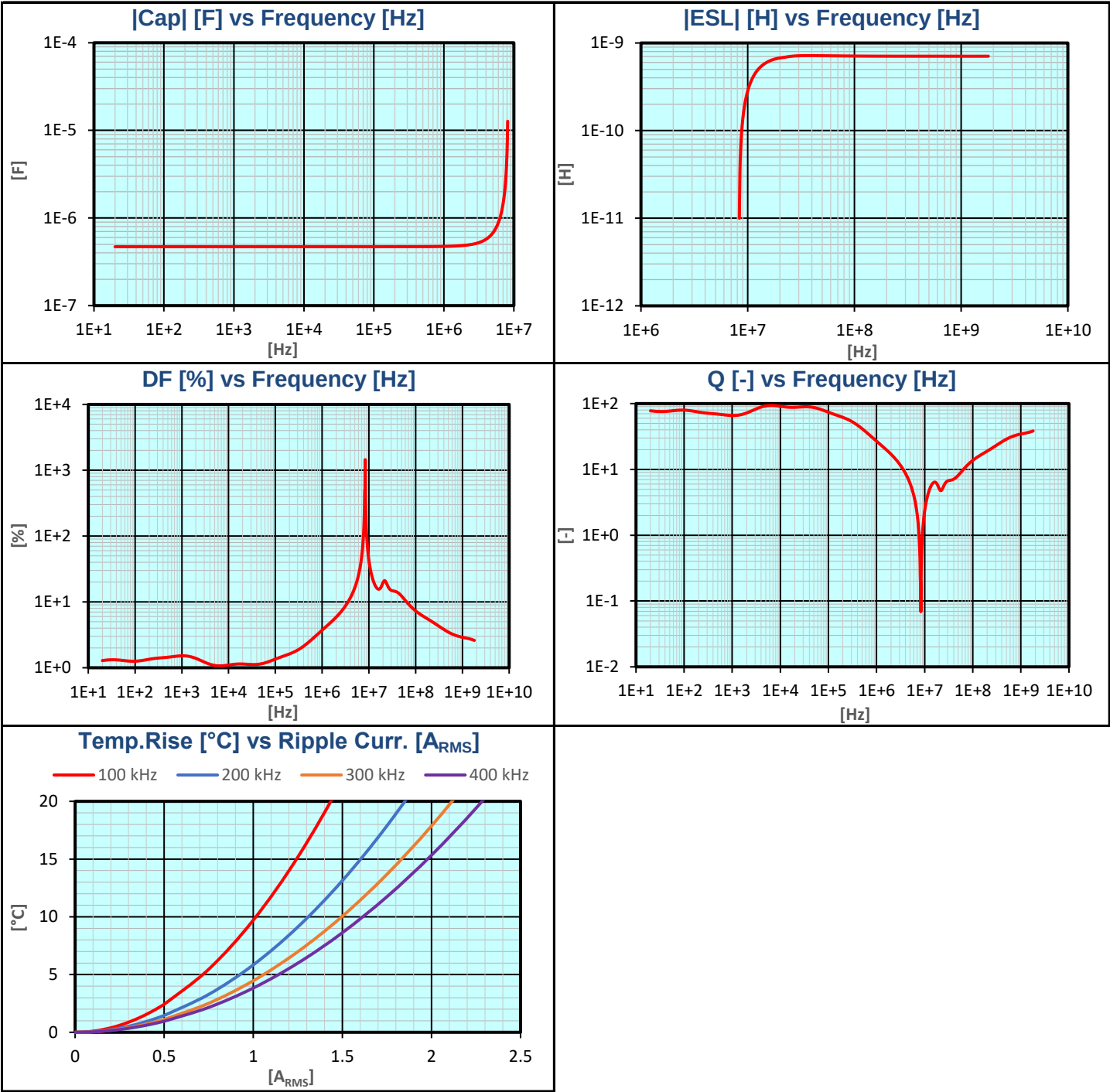
## Basic Specifications

| Item                  | Unit | Spec.           | Conditions          |
|-----------------------|------|-----------------|---------------------|
| Capacitance           | nF   | 376 to 564      | @ 1 kHz, 1 Vrms     |
| DF                    | %    | 12.5 max.       | @ 1 kHz, 1 Vrms     |
| IR                    | GΩ   | 2.1 min.        | @ 16 Vdc, t = 120 s |
| DWV                   | Vdc  | 40              | @ I ≤ 50mA, t ≤ 5 s |
| Operating Temperature |      | -55°C to +125°C |                     |
| Dielectric            |      | X7R             |                     |
| AEC-Q200              |      | Not qualified   |                     |
| RoHS Compliant        |      | Yes             |                     |
| Termination           |      | Sn              |                     |

## Electrical Characteristics



Electrical Characteristics



# 0805YC474MAT2A Datasheet



(0805 16V X7R 470nF ±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. |                                                                                                               |                       |                                                                   |                                                                                                                               |                                                          |                                                                                                                             |                                                                                              |                                        |