

DATA SHEET

SURFACE-MOUNT CERAMIC EMI FILTER CAPACITORS

X2Y® Series
6.3 V TO 100 V



**Surface-mount ceramic
EMI filter capacitors**

X2Y® Series

DESCRIPTION

X2Y® series is a breakthrough in the design of ceramic multilayer products for decoupling and filtering in an IPD (integrated passive device).

X2Y® products comprise two identical Y-capacitors and one X-capacitor, integrated into a 4 terminal device, which is available in standard MLCC sizes. Thanks to the unique multilayer construction the device provides noise cancellation within the device, reducing ESL from nanohenry to picohenry levels.

Using the unique balance between the Y-capacitors and the shielded multilayer structure the X2Y® products offer superior decoupling and filtering.

The X2Y® device performs as a broadband filter enabling better EMC compliance for electrical equipment in a wide range of applications.

FEATURES

- **Broadband Filtering and Decoupling:** X2Y® is effective up to 10 GHz and frequencies beyond
- **Ultra Low ESL:** Noise cancellation within X2Y® makes ESL reducing from nanohenry to picohenry levels
- **Bypass:** Unlike feedthrough capacitors, X2Y® is in bypass, so no DC current limitations
- **Matched Y-caps:** Two tightly matched line to ground capacitors in one device
- **Superior Balance:** Temperature and voltage variations balanced of two Y-caps
- **Aging Reliability:** Aging effects are equal on two Y-caps

BENEFITS

- **Fewer Component in Filtering:** One X2Y® can replace multiple inductors and/or capacitors
- **Superior Performance in Filtering:** One X2Y® can eliminate both differential and common mode noises
- **Fewer Component in Decoupling:** Up to 1:7 replacement of MLCC in power delivering system bypass networks
- **Superior Performance in Decoupling:** Large or small, X2Y® components exhibit ultra low ESL
- **Total Cost Savings:** Assembly cost savings through reduced component count and placement costs
- **Board Level Design Advantages:** Dramatically reduces via drills, which blocks routing

APPLICATIONS

- EMI filtering on DC motors
- Filtered connectors (airbag connectors, RJ-45 connectors)
- High speed data-line filtering
- Decoupling of supply-lines in high speed digital circuits
- Broadband filtering.
- Amplifier decoupling and EMI suppression.
- IC Decoupling, on-package, on-PCB.
- DC power line filtering.
- Data line filtering.
- EMI suppression for DC motors.
- Sensors
- Audio

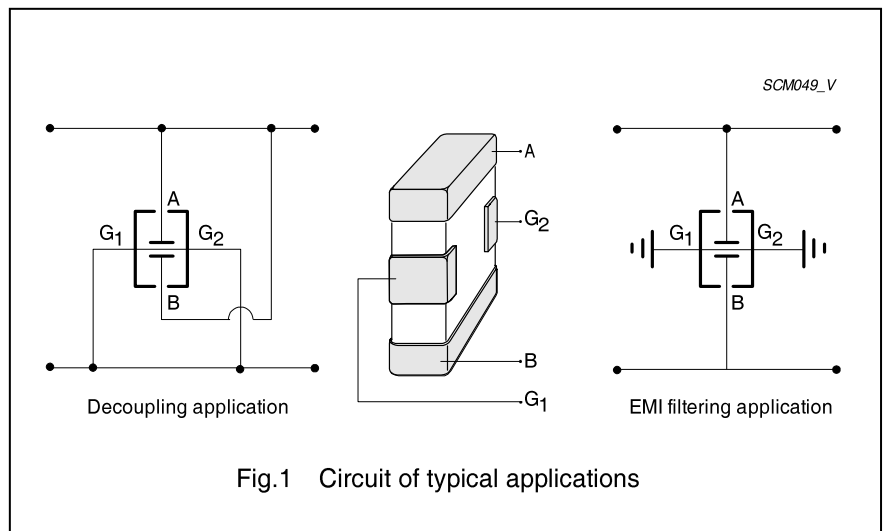


Fig.1 Circuit of typical applications

**Surface-mount ceramic
EMI filter capacitors**
X2Y[®] Series
QUICK REFERENCE DATA

| DESCRIPTION | VALUE |
|---------------------------------|--|
| Materials | X7R / X5R |
| Rated voltage | |
| X7R | 10 V, 16 V, 25 V, 50 V / 63 V, 100 V (IEC) |
| X5R | 10 V |
| Capacitance range (Y-capacitor) | |
| X7R 0603 series | 1 nF to 330 nF |
| 0805 series | 1 nF to 180 nF |
| 1206 series | 10 nF to 470 nF |
| 1210 series | 100 nF to 1 μ F |
| X5R 0603 series | 180 nF to 470 nF |
| Tolerance on capacitance | $\pm 20\%$ (M) |
| Test voltage (DC) for 1 minute | $2.5 \times U_R$ |
| Sectional specifications | IEC 60384-10, second edition 1989-04 |
| Detailed specification | based on IEC 60384-10-1 |
| Climatic category (IEC 60068) | X7R: 55 / 125 / 56 |

**Surface-mount ceramic
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X2Y® Series

GENERAL SELECTION CHART

| C (pF) | X7R | | | | X5R |
|-----------|-------------|--------------|--------------|-------------|-------------|
| | 0603 | 0805 | 1206 | 1210 | 0603 |
| 1,000 | 100V | 100 V | | | |
| 1,500 | | | | | |
| 2,200 | | | | | |
| 4,700 | | | | | |
| 5,600 | | | | | |
| 10,000 | 50 V | | 100 V | | |
| 15,000 | 25 V | 50 V | | | |
| 18,000 | | | | | |
| 22,000 | | | | | |
| 39,000 | 16 V | 25 V | 50 V | | |
| 47,000 | | 16 V | | | |
| 56,000 | | | | | |
| 100,000 | 10 V | 10 V | 16 V | 50V | 10 V |
| 180,000 | | | | | |
| 220,000 | | | | | |
| 270,000 | | | | | |
| 330,000 | | | | | |
| 390,000 | | | | | |
| 470,000 | | | 10 V | | |
| 560,000 | | | | | |
| 820,000 | | | | 16 V | |
| 1,000,000 | | | | | |

Surface-mount ceramic EMI filter capacitors

X2Y® Series

Electrical characteristics CHARACTERISTICS FOR X7R

Class 2 capacitors; X7R dielectric; Ni/Sn terminations

| DESCRIPTION | VALUE |
|---|---|
| Rated voltage U_R (DC) | 10 V, 16 V, 25 V, 50 V/63 V, 100 V |
| Capacitance range | 1 nF to 1 μ F |
| Capacitance tolerance | $\pm 20\%$ |
| Dissipation factor (D.F.); note 1 | |
| 6.3 V | 6% |
| 10 V | 5% |
| 16 V | 3.5% |
| ≥ 25 V | 2.5% |
| Insulation resistance after 1 minute at U_R (DC) | $R_{ins} \times C > 500$ seconds or $R_{ins} > 10G\Omega$, whichever is less |
| Maximum capacitance change as a function of temperature | $\pm 15\%$ |
| Operating temperature range: | |
| X7R | $-55\text{ }^\circ\text{C}$ to $+125\text{ }^\circ\text{C}$ |
| Aging | Typical 1% per time decade |

Note

1. Measured at $20\text{ }^\circ\text{C}$, 1 V and 1 KHz, using a four-gauge method.

CHARACTERISTICS FOR X5R

Class 2 capacitors; X5R dielectric; Ni/Sn terminations

| DESCRIPTION | VALUE |
|---|---|
| Rated voltage U_R (DC) | 6.3V, 10 V |
| Capacitance range | 180 nF to 470 nF |
| Capacitance tolerance | $\pm 20\%$ |
| Dissipation factor (D.F.); note 1 | |
| 6.3 V | 10% |
| 10 V | 10% |
| Insulation resistance after 1 minute at U_R (DC) | $R_{ins} \times C > 500$ seconds or $R_{ins} > 10G\Omega$, whichever is less |
| Maximum capacitance change as a function of temperature | $\pm 15\%$ |
| Operating temperature range: | |
| X5R | $-55\text{ }^\circ\text{C}$ to $+85\text{ }^\circ\text{C}$ |
| Aging | Typical 1% per time decade |

Note

1. Measured at $20\text{ }^\circ\text{C}$, 1 V and 1 KHz, using a four-gauge method.

**Surface-mount ceramic
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X2Y® Series

SELECTION CHART FOR X7R SIZES 0603, 0805, 1206,1210 AND ORDERING INFORMATION

| SIZE | Y-CAPACITOR | | VOLTAGE RATING (V) | THICKNESS (mm) | CTC ORDERING CODE | QUANTITY PER REEL |
|------|-------------|---------------|--------------------|-------------------|-------------------|-------------------|
| | CAP. (nF) | TOLERANCE (%) | | | | |
| 0603 | 1 | 20% | 100 | 0.65 | CX0603MRX7R0BB102 | 4,000 |
| | 1 | 20% | 50 | 0.65 | CX0603MRX7R9BB102 | 4,000 |
| | 1 | 20% | 16 | 0.65 | CX0603MRX7R7BB102 | 4,000 |
| | 1.5 | 20% | 100 | 0.65 | CX0603MRX7R0BB152 | 4,000 |
| | 1.5 | 20% | 50 | 0.65 | CX0603MRX7R9BB152 | 4,000 |
| | 2.2 | 20% | 100 | 0.65 | CX0603MRX7R0BB222 | 4,000 |
| | 4.7 | 20% | 100 | 0.65 | CX0603MRX7R0BB472 | 4,000 |
| | 5.6 | 20% | 100 | 0.65 | CX0603MRX7R0BB562 | 4,000 |
| | 5.6 | 20% | 50 / 63 | 0.65 | CX0603MRX7R9BB562 | 4,000 |
| | 10 | 20% | 50 / 63 | 0.65 | CX0603MRX7R9BB103 | 4,000 |
| | 15 | 20% | 25 | 0.65 | CX0603MRX7R8BB153 | 4,000 |
| | 18 | 20% | 25 | 0.65 | CX0603MRX7R8BB183 | 4,000 |
| | 22 | 20% | 25 | 0.65 | CX0603MRX7R8BB223 | 4,000 |
| | 39 | 20% | 16 | 0.65 | CX0603MRX7R7BB393 | 4,000 |
| | 47 | 20% | 16 | 0.65 | CX0603MRX7R7BB473 | 4,000 |
| | 56 | 20% | 16 | 0.65 | CX0603MRX7R7BB563 | 4,000 |
| | 100 | 20% | 10 | 0.65 | CX0603MRX7R6BB104 | 4,000 |
| | 180 | 20% | 10 | 0.65 | CX0603MRX7R6BB184 | 4,000 |
| | 220 | 20% | 10 | 0.65 | CX0603MRX7R6BB224 | 4,000 |
| | 270 | 20% | 10 | 0.65 | CX0603MRX7R6BB274 | 4,000 |
| 330 | 20% | 10 | 0.65 | CX0603MRX7R6BB334 | 4,000 | |
| 0805 | 1 | 20% | 100 | 0.85 | CX0805MRX7R0BB102 | 4,000 |
| | 1 | 20% | 50 | 0.85 | CX0805MRX7R9BB102 | 4,000 |
| | 1.5 | 20% | 100 | 0.85 | CX0805MRX7R0BB152 | 4,000 |
| | 2.2 | 20% | 100 | 0.85 | CX0805MRX7R0BB222 | 4,000 |
| | 4.7 | 20% | 100 | 0.85 | CX0805MRX7R0BB472 | 4,000 |
| | 10 | 20% | 100 | 0.85 | CX0805MRX7R0BB103 | 4,000 |
| | 15 | 20% | 50 | 0.85 | CX0805MRX7R9BB153 | 4,000 |
| | 18 | 20% | 50 | 0.85 | CX0805MRX7R9BB183 | 4,000 |
| | 22 | 20% | 50 | 0.85 | CX0805MRX7R9BB223 | 4,000 |
| | 22 | 20% | 50 | 0.85 | CX0805MRX7R8BB223 | 4,000 |
| | 47 | 20% | 16 | 0.85 | CX0805MRX7R7BB473 | 4,000 |
| | 56 | 20% | 16 | 0.85 | CX0805MRX7R7BB563 | 4,000 |
| | 100 | 20% | 16 | 0.85 | CX0805MRX7R7BB104 | 4,000 |
| | 180 | 20% | 10 | 0.85 | CX0805MRX7R6BB184 | 4,000 |

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| SIZE | Y-CAPACITOR | | VOLTAGE RATING (V) | THICKNESS (mm) | CTC ORDERING CODE | QUANTITY PER REEL |
|------|-------------|---------------|--------------------|-------------------|-------------------|-------------------|
| | CAP. (nF) | TOLERANCE (%) | | | | |
| 1206 | 10 | 20% | 100 | 1.2 | CX1206MKX7R0BB103 | 3,000 |
| | 15 | 20% | 100 | 1.2 | CX1206MKX7R0BB153 | 3,000 |
| | 15 | 20% | 50 | 1.2 | CX1206MKX7R9BB153 | 3,000 |
| | 18 | 20% | 100 | 1.2 | CX1206MKX7R0BB183 | 3,000 |
| | 22 | 20% | 100 | 1.2 | CX1206MKX7R0BB223 | 3,000 |
| | 33 | 20% | 100 | 1.2 | CX1206MKX7R0BB333 | 3,000 |
| | 39 | 20% | 50 | 1.2 | CX1206MKX7R9BB393 | 3,000 |
| | 47 | 20% | 50 | 1.2 | CX1206MKX7R9BB473 | 3,000 |
| | 56 | 20% | 50 | 1.2 | CX1206MKX7R9BB563 | 3,000 |
| | 100 | 20% | 50 | 1.2 | CX1206MKX7R9BB104 | 3,000 |
| | 180 | 20% | 16 | 1.2 | CX1206MKX7R7BB184 | 3,000 |
| | 220 | 20% | 16 | 1.2 | CX1206MKX7R7BB224 | 3,000 |
| | 270 | 20% | 16 | 1.2 | CX1206MKX7R7BB274 | 3,000 |
| | 330 | 20% | 16 | 1.2 | CX1206MKX7R7BB334 | 3,000 |
| | 390 | 20% | 16 | 1.2 | CX1206MKX7R7BB394 | 3,000 |
| 470 | 20% | 10 | 1.2 | CX1206MKX7R6BB474 | 3,000 | |
| 1210 | 100 | 20% | 50 | 1.6 | CX1210MKX7R9BB104 | 2,000 |
| | 180 | 20% | 50 | 1.6 | CX1210MKX7R9BB184 | 2,000 |
| | 220 | 20% | 50 | 1.6 | CX1210MKX7R9BB224 | 2,000 |
| | 270 | 20% | 50 | 1.6 | CX1210MKX7R9BB274 | 2,000 |
| | 330 | 20% | 50 | 1.6 | CX1210MKX7R9BB334 | 2,000 |
| | 390 | 20% | 50 | 1.6 | CX1210MKX7R9BB394 | 2,000 |
| | 470 | 20% | 50 | 1.6 | CX1210MKX7R9BB474 | 2,000 |
| | 470 | 20% | 25 | 1.6 | CX1210MKX7R8BB474 | 2,000 |
| | 560 | 20% | 50 | 1.6 | CX1210MKX7R9BB564 | 2,000 |
| | 560 | 20% | 25 | 1.6 | CX1210MKX7R8BB564 | 2,000 |
| | 820 | 20% | 16 | 1.6 | CX1210MKX7R7BB824 | 2,000 |
| | 1000 | 20% | 16 | 1.6 | CX1210MKX7R7BB105 | 2,000 |

**Surface-mount ceramic
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X2Y® Series

SELECTION CHART FOR X5R SIZES 0603 ⁽¹⁾

| SIZE | Y-CAPACITOR | | VOLTAGE RATING (V) | THICKNESS (mm) | CTC ORDERING CODE | QUANTITY PER REEL |
|------|-------------|---------------|--------------------|----------------|-------------------|-------------------|
| | CAP. (nF) | TOLERANCE (%) | | | | |
| 0603 | 180 | 20% | 10 | 0.65 | CX0603MRX5R6BB184 | 4,000 |
| | 220 | 20% | 10 | 0.65 | CX0603MRX5R6BB224 | 4,000 |
| | 270 | 20% | 10 | 0.65 | CX0603MRX5R6BB274 | 4,000 |
| | 330 | 20% | 10 | 0.65 | CX0603MRX5R6BB334 | 4,000 |
| | 390 | 20% | 10 | 0.65 | CX0603MRX5R6BB394 | 4,000 |
| | 470 | 20% | 10 | 0.65 | CX0603MRX5R6BB474 | 4,000 |
| | 470 | 20% | 10 | 0.65 | CX0603MRX5R5BB474 | 4,000 |

Notes

- 1. Other values are available on request.

THICKNESS CLASSIFICATION AND PACKING QUANTITIES FOR X7R

| THICKNESS CLASSIFICATION (mm) | QUANTITY PER REEL | | | |
|-------------------------------|-------------------|---------|---------------|---------|
| | 8 mm TAPE WIDTH | | | |
| | ∅ 180 mm; 7" | | ∅ 330 mm; 13" | |
| | 0603 - 1210 | | | |
| | PAPER | BLISTER | PAPER | BLISTER |
| 0.65 ±0.1 | 4,000 | | | |
| 0.85 ±0.1 | 4,000 | | | |
| 1.2 ±0.15 | – | 3,000 | | |
| 1.6 ±0.15 | – | 2,000 | | |

**Surface-mount ceramic
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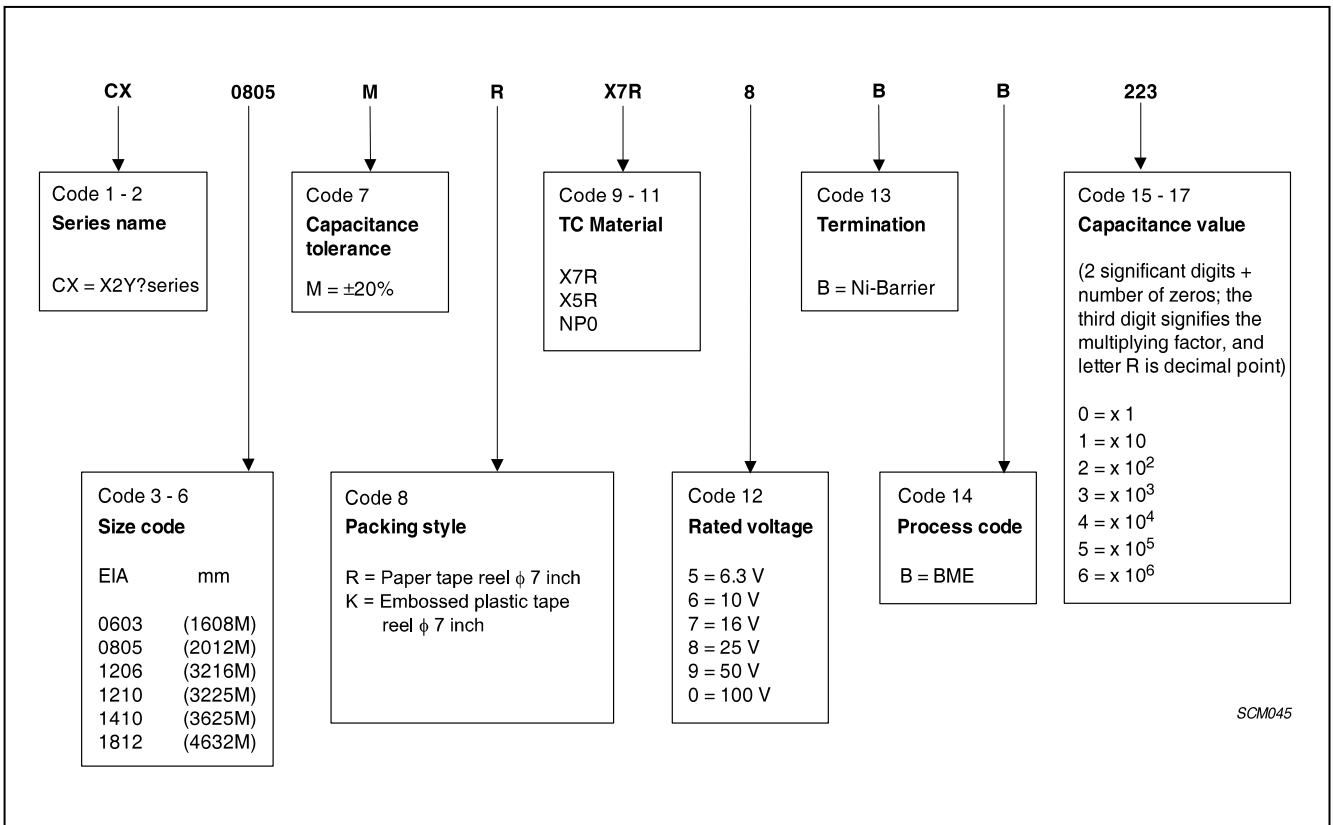
X2Y® Series

ORDERING INFORMATION

Components may be ordered by using either a Yageo part number or Phycomp's unique 12NC.

Ordering code: Yageo part number

Example: CX0805MRX7R8BB223



**Surface-mount ceramic
EMI filter capacitors**

X2Y® Series

RECOMMENDED DIMENSIONS OF SOLDER LANDS

Table 3 Reflow soldering

| CASE SIZE (EIA) | Footprint dimensions (mm) | | | | | Placement Accuracy (mm) |
|--------------------|------------------------------|------|------|------|------|-------------------------------|
| | A | B | C | D | E | |
| 0603 | 2.30 | 0.76 | 0.64 | 0.51 | 1.52 | ±0.20 |
| 0805 | 3.05 | 1.27 | 0.89 | 0.56 | 2.03 | ±0.20 |
| 1206 | 4.06 | 1.65 | 1.00 | 1.02 | 3.05 | ±0.25 |
| 1210 | 4.57 | 2.55 | 1.00 | 1.14 | 4.06 | ±0.25 |

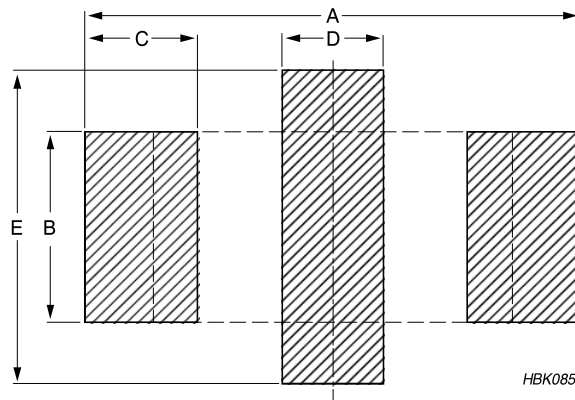
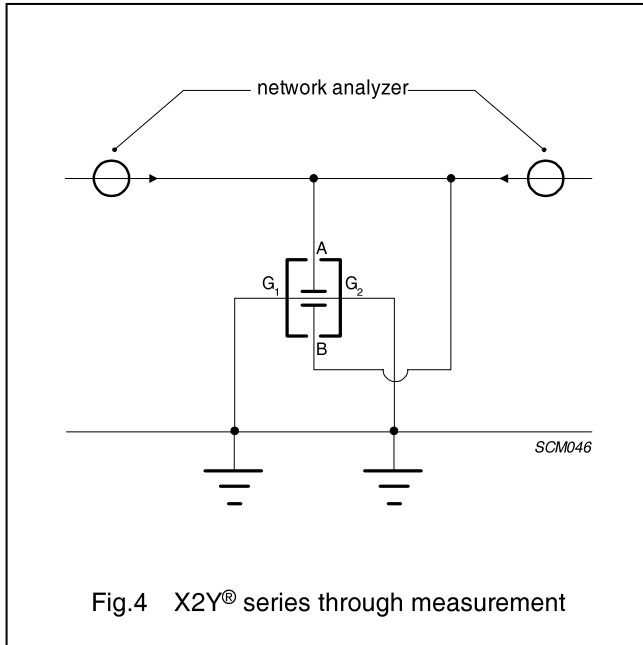


Fig.3 Recommended dimensions of solder lands

**Surface-mount ceramic
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X2Y® Series

MEASUREMENT SETUP



- X2Y® are soldered on a printed circuit board
- PCB: FR-4 substrate, with 50 Ω microstrip line
- Network Analyzer: Agilent E5071b
- Calibration: full 2-port calibration with 85033E kit

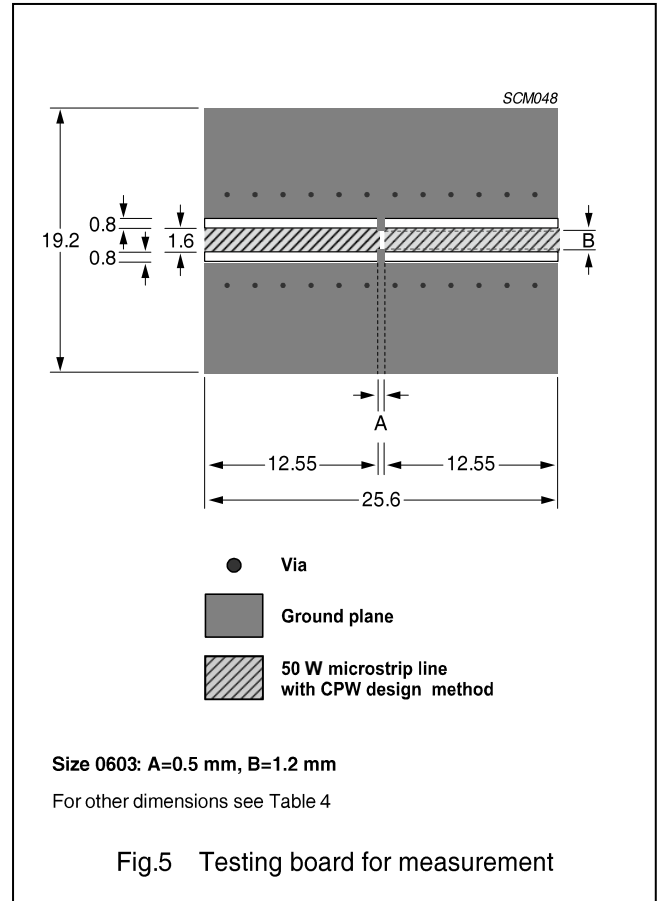


Table 4 Recommended dimensions of measurement

| CASE SIZE | A (mm) | B (mm) |
|-----------|-----------|-----------|
| 0603 | 0.5 ±0.10 | 1.2 ±0.10 |
| 0805 | 0.8 ±0.10 | 1.6 ±0.10 |
| 1206 | 1.2 ±0.10 | 2.8 ±0.15 |
| 1210 | 2.1 ±0.15 | 2.8 ±0.15 |

**Surface-mount ceramic
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TESTS AND REQUIREMENTS

Table 5 Test procedures and requirements

| IEC 60384-10/ CECC 32 100 CLAUSE | IEC 60068-2 | TEST | PROCEDURE | REQUIREMENTS |
|--|----------------|---------------------------------------|---|-----------------------------------|
| | TEST METHOD | | | |
| 4.4 | | mounting | the capacitors may be mounted on printed-circuit boards or ceramic substrates by applying reflow soldering (including vapor phase soldering) or conductive adhesive | no visible damage |
| 4.5 | | visual inspection and dimension check | any applicable method using ×10 magnification | in accordance with specification |
| 4.6.1 | | capacitance | Class 1: ≤ 1000 pF; f = 1 MHz >1000 pF; f = 1 kHz NP0: measuring voltage 1 V at 20 °C Class 2: For all capacitors f = 1 kHz X7R: measuring voltage 1 V at 20 °C Y5V: measuring voltage 1 V at 25 °C | within specified tolerance |
| 4.6.2 | | tan δ | Class 1: ≤ 1000 pF; f = 1 MHz >1000 pF; f = 1 kHz NP0: measuring voltage 1 V at 20 °C Class 2: For all capacitors f = 1 kHz X7R: measuring voltage 1 V at 20 °C Y5V: measuring voltage 1 V at 25 °C | in accordance with specifications |
| 4.6.3 | | insulation resistance | at UR (DC) for 1 minute | in accordance with specification |
| 4.6.4 | | voltage proof | 2.5 × UR for 1 minute | no breakdown or flashover |
| 4.7.1 | | temperature characteristic | Between minimum and maximum temperature | in accordance with specification |
| 4.8 | | adhesion | a force of 5 N applied for 10 s to the line joining the terminations and in a plane parallel to the substrate | no visible damage |

**Surface-mount ceramic
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X2Y® Series

Table 5 Test procedures and requirements (continued)

| IEC 60384-10/ CECC 32 100 CLAUSE | IEC 60068-2 | TEST | PROCEDURE | REQUIREMENTS |
|--|----------------|--|---|--|
| | TEST METHOD | | | |
| 4.9 | | bond strength of plating on end face | mounted in accordance with CECC 32 100, paragraph 4.4 | no visible damage |
| | | | conditions: bending 1 mm at a rate of 1 mm/s, radius jig 340 mm | $\Delta C/C$: class 1: within $\pm 10\%$ class 2, X7R: within $\pm 10\%$ class 2, Y5V: within $\pm 30\%$ |
| 4.10 | Tb | resistance to soldering heat | Precondition: 120 to 150 °C for 1 minute; 260 ± 5 °C for 10 ± 0.5 s in a static solder bath | the terminations shall be well tinned after recovery $\Delta C/C$: class 1: within $\pm 0.5\%$ or 0.5 pF whichever is greater class 2, X7R: $> -5\%$ and $\leq 10\%$ class 2, Y5V: $> -10\%$ and $\leq 20\%$ |
| | | resistance to leaching | 260 ± 5 °C for 30 ± 1 s in a static solder bath | using visual enlargement of $\times 10$, dissolution of the terminations shall not exceed 10% |
| 4.11 | Ta | solderability | zero hour test, and test after storage (20 to 24 months) in original packing in normal atmosphere; unmounted chips completely immersed for 2 ± 0.5 s in a solder bath at 235 ± 5 °C | the terminations shall be well tinned |
| 4.12 | Na | rapid change of temperature | Preconditioning, class 2 only; NP0 / X7R: -55 to +125 °C; 5 cycles Y5V: -25 to +85 °C; 5 cycles | no visual damage after 48 hours recovery; $\Delta C/C$: class 1: within $\pm 1\%$ or 1 pF class 2, X7R: within $\pm 15\%$ class 2, Y5V: within $\pm 20\%$ |
| 4.15 | | Endurance | Pre-conditioning, class 2 only: 1000 hours at upper category temperature at: 1.5 \times UR | no visual damage after 24 hours recovery: $\Delta C/C$: class 1: within $\pm 2\%$ or 1 pF, whichever is greater class 2, X7R: within $\pm 20\%$ class 2, Y5V: within +30/-40% $\tan \delta$: class 1: $\leq 2 \times$ specified value class 2: X7R: $\leq 7\%$ class 2: Y5V: $\leq 15\%$ Rins: class 1: 4000 M Ω or Rins \times CR ≥ 40 s, whichever is less class 2: 2000 M Ω or Rins \times CR ≥ 50 s, whichever is less |

**Surface-mount ceramic
EMI filter capacitors**

X2Y® Series

REVISION HISTORY

| Revision | Date | Change Notification | Description |
|----------|--------------|---------------------|---|
| Rev.5 | 2001 Sep 25 | - | - Published on web |
| Rev.6 | 2002 Jul 10 | - | - Product range extended in all materials and sizes; - Insertion loss measurements added. |
| Rev.7 | 2003 Apr 02 | - | - Updated company logo |
| Rev.8 | 2003 Jul 23 | - | - Cover page revised |
| Rev.9 | 2003 Sep 09 | - | - Cover page corrected |
| Rev.10 | 2004 Apr 21 | - | - Product range updated - NP0, Y5V and size 1812 removed. |
| Rev.11 | 2006 Nov 21 | - | - Size 1410 extended - Product applications, features and benefits update - Measurement setup added - Updated tests and requirements |
| Rev.12 | 2006 Dec 22 | - | - 12 NC revised |
| Rev.13 | 2008 Nov 10 | - | - Product range extended in materials of NP0 and X5R |
| Rev. 14 | 2013 June 27 | | - Rev.14 : Product range extended on NP0 0606 and 0805 |
| Rev. 15 | 2016 July 25 | | - Product range extended on X7R |

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Yageo:

[CX1206MKX7R6BB474](#) [CX1210MKX7R7BB105](#) [CX0603MRX7R6BB104](#) [CX0603MRX7R0BB102](#)
[CX0805MRX7R0BB102](#) [CX0603MRX5R6BB224](#) [CX0603MRX7R7BB473](#) [CX0805MRX7R0BB103](#)
[CX0603MRX5R6BB474](#)



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)

Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.