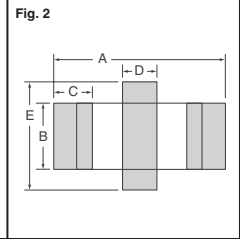
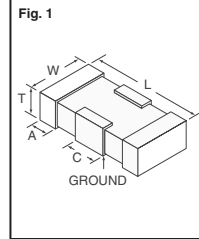


Table with columns: Case Size, Type, WV DC, Capacitance, Tolerance, Dim. T, Digi-Key Part No., Cut Tape Pricing (10, 100, 500), Digi-Key Part No., Tape and Reel (Qty., Pricing), Yageo Part No.

F

X2Y® Series Surface Mount Ceramic EMI Filter Capacitors



Features: • Broadband Filtering and Decoupling: Effective up to 10 GHz and frequencies beyond • Ultra Low ESL: Noise cancellation makes ESL reduce 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: Can replace multiple inductors and/or capacitors • Superior Performance in Filtering: 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

Table: Fig. 1 — Dimensions in Inch (mm). Columns: Case Size, L, W, T (Min, Max), A (Min, Max), C (Min, Max).

Table: Fig. 2 — Reflow Soldering. Columns: Case Size, Footprint Dimensions - mm (A, B, C, D, E), Placement Accuracy (mm).

Table with columns: Case Size, Type, WV DC, Capacitance, Tolerance, Digi-Key Part No., Cut Tape Pricing (10, 100, 500), Digi-Key Part No., Tape and Reel (Qty., Pricing), Yageo Part No.

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

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