



Low Inductance Capacitors 0508/0612 IDC (InterDigitated Capacitors)



Very low equivalent series inductance, surface mountable, high speed decoupling capacitor. Measured inductances of 120pH (for 0612) and 95pH (for 0508) are the lowest in the FR4 mountable device family.

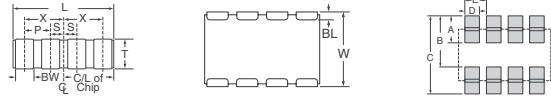


Table with columns: Size Code, Dimensions (A, B, C, D, E, L, T, W, BW, BL, P, X, S), and units (mm).

Characteristics: • Temperature Coefficient: ±15% (OVDC) • Dissipation Factor: 4V and 6.3V=6.5% Maximum, 10V=5.0% Maximum, 16V=3.5% Maximum • Insulation (ppm/C): 12.0 • Thermal Conductivity: 4-5W/M K • Terminations Available: Plated Nickel and Solder • Maximum Thickness: 0.037" (0.95mm) • Operating Temperature: X7R: -55°C ~ 125°C, X5R: -55°C ~ 85°C

Large table with columns: Size Code, Type, WV DC, Capacitance, Capacitance Tolerance %, Digi-Key Part No., Cut Tape Price Each (10, 100, 500), Digi-Key Part No., Tape and Reel (Qty., Pricing), and AVX Part No.

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Tip and Ring Multilayer Ceramic Chip Capacitors

AVX Tip and Ring or ring detector multilayer ceramic chip capacitors are designed as a standard telecom filter to block -48 volts DC telephone line voltage and pass subscriber's AC signal pulse (16 to 25Hz, 70 to 90Vrms).

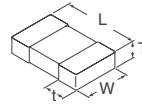


Table with columns: Size Code, Dimensions (L, W, T, t), and units (mm).

Specifications: • Operating Voltage Range: -55°C ~ 125°C • Dielectric Strength: 250% of rated voltage for 5 seconds at 50mA maximum current • Dissipation Factor: 2.5% maximum

Large table with columns: Size Code, Type, WV DC, Capacitance, Capacitance Tolerance %, Digi-Key Part No., Cut Tape Price Each (10, 100, 500), Digi-Key Part No., Tape and Reel (Qty., Pricing), and AVX Part No.

LD Series Multilayer Ceramic Chip Capacitors

X7R Dielectric: • X7R formulations are called "temperature stable" ceramics and fall into EIA class II materials • Its temperature variation of capacitance is within ±15% from 55°C ~ 125°C • Operating Temperature Range: -55°C ~ 125°C

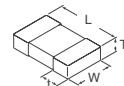


Table with columns: Size Code, Dimensions (L, W, T, t), and units (mm).

X5R Dielectric: • General purpose dielectric for ceramic capacitors • EIA Class II dielectric • Temperature variation of capacitance is within ±15% from -55°C ~ 85°C • Operating Temperature Range: -55°C ~ 85°C

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

All prices are in U.S. dollars (www.digikey.com). — Toll-Free: 00801-85-4023

1706 (TW092-10) Fax: (852) 3104 0686 — Taiwan dollar available by credit card at www.digikey.tw.