

LGA Low Inductance Capacitors



0204/0306/0805 Land Grid Arrays – Tin/Lead Termination “B”

| SIZE | LG12 (0204) | | | | | | LG22 (0306) | | | | | | LGC2 (0805) | | | | | | | | | | |
|-----------------|--------------|-------|---------|-------|---------|-------|--------------|---------|-------|---------|-------|---------|--------------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|
| Length mm (in.) | 0.50 (0.020) | | | | | | 0.76 (0.030) | | | | | | 2.06 (0.081) | | | | | | | | | | |
| Width mm (in.) | 1.00 (0.039) | | | | | | 1.60 (0.063) | | | | | | 1.32 (0.052) | | | | | | | | | | |
| Temp. Char. | X5R (D) | | X7S (Z) | | X6S (W) | | X7R (C) | | | X5R (D) | | X7S (Z) | | X6S (W) | | X7R (C) | | X5R (D) | | X7S (Z) | | X6S (W) | |
| Working Voltage | 6.3 (6) | 4 (4) | 6.3 (6) | 4 (4) | 6.3 (6) | 4 (4) | 10 (Z) | 6.3 (6) | 4 (4) | 6.3 (6) | 4 (4) | 6.3 (6) | 4 (4) | 6.3 (6) | 4 (4) | 6.3 (6) | 4 (4) | 6.3 (6) | 4 (4) | 6.3 (6) | 4 (4) | 6.3 (6) | 4 (4) |
| Cap (µF) | 0.010 (103) | | | | | | | | | | | | | | | | | | | | | | |
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= X7R
 = X5R
 = X7S
 = X6S

HOW TO ORDER

| | | | | | | | | | | | |
|-----------|----------------------------------|---------------------|-------------------------------|--|------------|---------------|-------------------|-------------|-----------------------------|----------------|----------------------|
| PG | 1 | 2 | 6 | Z | 104 | M | A | B | 2 | S | 1 |
| Style | Case Size | Number of Terminals | Working Voltage | Temperature Characteristic | Coded Cap | Cap Tolerance | Termination Style | Termination | Packaging Tape & Reel | Thickness | Number of Capacitors |
| | 1 = 0204 2 = 0306 C = 0805 | 2 | 4 = 4V 6 = 6.3V Z = 10V | C = X7R D = X5R Z = X7S W = X6S | | M = 20% | A = "U" Land | 5% Min Lead | 2 = 7" Reel 4 = 13" Reel | S = 0.55mm max | |

Not RoHS Compliant



PART DIMENSIONS

| Series | mm (inches) | | | | |
|-------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| | L | W | T | BW | BL |
| PG12 (0204) | 0.5 ± 0.05 (0.020 ± 0.002) | 1.00 ± 0.10 (0.039 ± 0.004) | 0.50 ± 0.05 (0.020 ± 0.002) | 0.8 ± 0.10 (0.031 ± 0.004) | 0.13 ± 0.08 (0.005 ± 0.003) |
| PG22 (0306) | 0.76 ± 0.10 (0.030 ± 0.004) | 1.60 ± 0.10 (0.063 ± 0.004) | 0.50 ± 0.05 (0.020 ± 0.002) | 1.50 ± 0.10 (0.059 ± 0.004) | 0.28 ± 0.08 (0.011 ± 0.003) |
| PGC2 (0805) | 2.06 ± 0.10 (0.081 ± 0.004) | 1.32 ± 0.10 (0.052 ± 0.004) | 0.50 ± 0.05 (0.020 ± 0.002) | 1.14 ± 0.10 (0.045 ± 0.004) | 0.90 ± 0.08 (0.035 ± 0.003) |

RECOMMENDED SOLDER PAD DIMENSIONS

mm (inches)



| Series | PL | PW1 | G |
|-------------|--------------|--------------|--------------|
| PG12 (0204) | 0.50 (0.020) | 1.00 (0.039) | 0.20 (0.008) |
| PG22 (0306) | 0.65 (0.026) | 1.50 (0.059) | 0.20 (0.008) |
| PGC2 (0805) | 1.25 (0.049) | 1.40 (0.055) | 0.20 (0.008) |