State of the Art, Inc.

Precision Thin Film Chip Resistor
MIL-PRF-55342/12 Solderable RM0603

Performance

Resistance Range*  5.6Ω to 576 kΩ
Tolerances (± %)*  0.1, 0.25, 0.5, 1, 2, 5, 10
TCR (± ppm/°C)*  25, 50, 100
Power Rating  100 mW
Voltage Rating  50 V
Operating Range  -65 to 150°C
Product Levels  M, P, R, S, U, V, T

*see QPL55342 for part number availability

Maximum Allowable Drift

Temperature Characteristic | E  | H  | K
---|---|---|---
TCR (ppm/°C) | ±25 | ±50 | ±100
Thermal Shock | ±0.1% | ±0.25% | ±0.5%
Power Conditioning | ±0.2% | ±0.25% | ±0.5%
Low Temperature Operation | ±0.1% | ±0.25% | ±0.25%
Short Time Overload | ±0.1% | ±0.1% | ±0.25%
High Temperature Exposure | ±0.1% | ±0.2% | ±0.25%
Moisture Resistance | ±0.2% | ±0.4% | ±0.5%
Life (Qualification) | ±0.5% | ±0.5% | ±0.5%
Life (FR Level) | ±2.0% | ±2.0% | ±2.0%
Resistance to Soldering Heat | ±0.2% | ±0.25% | ±0.25%
Resistance to Bonding Exposure | ±0.2% | ±0.25% | ±0.25%

Part Number

M55342E12B100AS - TR
Packaging: -TR: Tape & Reel  -W: Waffle Tray
Product Level (1000 hrs.):  M: 1%  P: 0.1%  R & U: 0.01%  S & V: 0.001%  T: Space 0.001%
Resistance Value and Tolerance:  Q: A: 0.1%  R: 0.25%  W: 0.5%  D: 1%  G: 2%  J: 5%  M: 10%
kQ: B: 0.1%  U: 0.25%  Y: 0.5%  E: 1%  H: 2%  K: 5%  N: 10%
MQ: C: 0.1%  V: 0.25%  Z: 0.5%  F: 1%  T: 2%  L: 5%  P: 10%
Termination Material: B: Solderable (SnPb solder over nickel)
Size: 12: RM0603
Performance Specification MIL-PRF-55342

Mechanical

Length (a)  0.062(0.058 - 0.070)  1.58(1.47 - 1.78)
Width (b)  0.032(0.027 - 0.037)  0.81(0.69 - 0.94)
Thickness (c)  0.018(0.010 - 0.033)  0.46(0.25 - 0.84)
Top Termination (d)  0.009(0.007 - 0.017)  0.23(0.16 - 0.43)
Bottom Termination (e)  0.014(0.010 - 0.020)  0.36(0.25 - 0.51)
Approximate Weight  0.00235 g

State of the Art, Inc.  2470 Fox Hill Road, State College, PA, USA  16803-1797
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