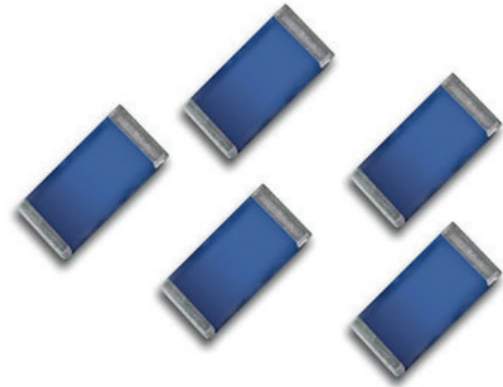


Precision Military and Space Qualified Chip Resistors

MIL-CHIP Series

- Now qualified to MIL-PRF-55342 Space Level T
- Four industry standard sizes available
- MIL-PRF-55342 Characteristics E, H, K, and M
- MIL-PRF-55342 extended reliability levels C, M, P, R, S and T



MIL-PRF-55342 Qualified Product Listing (QPL)

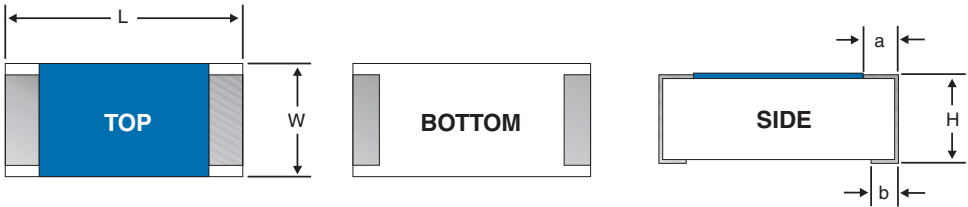
| Style Size | Technology | MIL-PRF-55342 Characteristic | Tolerance | Resistance Range (Ω) | Rated Voltage* (V) | Rated Power (mW) | Reliability Level | Termination Type |
|--------------------|---------------------------------|------------------------------|----------------|----------------------|--------------------|------------------|-------------------|--|
| Style 11 RM0402 | Thin Film PFC Series (TaNFilm®) | E, H, K, M | ±0.1% | 100R - 30K | 30 | 50 | C, M, P, R, S | Type `B` Sn/Pb solder over nickel barrier |
| | | | ±1% | 49R9 - 29K | | | | |
| | | | ±2%, ±5% | 51R0 - 30K | | | | |
| | | | ±10% | 51R0 - 27K | | | | |
| Style 12 RM0603 | Thin Film PFC Series (TaNFilm®) | E, H, K, M | ±0.1%, ±1% | 10R0 - 59K | 50 | 100 | C, M, P, R, S, T | |
| | | | ±2%, ±5%, ±10% | 10R0- 56K | | | | |
| Style 06 RM0705 | Thin Film PFC Series (TaNFilm®) | E, H, K, M | ±0.1% | 10R0 - 125K | 50 | 150 | C, M, P, R, S, T | |
| | | | ±1% | 10R0- 124K | | | | |
| | | | ±2%, ±5%, ±10% | 10R0- 120K | | | | |
| Style 07 RM1206 | Thin Film PFC Series (TaNFilm®) | E, H, K, M | ±0.1% | 100R - 500K | 100 | 250 | C, M, P, R, S, T | |
| | | | ±1% | 10R0- 499K | | | | |
| | | | ±2%, ±5%, ±10% | 10R0- 470K | | | | |

*Note: Voltage shall not exceed $\sqrt{P \times R}$.

General Note

TT Electronics reserves the right to make changes in product specification without notice or liability. All information is subject to TT Electronics' own data and is considered accurate at time of going to print.

Physical Data



| | L | W | H | a | b |
|-------------|---------------|---------------|---------------|---------------|---------------|
| 0402 | 0.040" ±0.002 | 0.021" ±0.002 | 0.012" ±0.003 | 0.008" ±0.002 | 0.010" ±0.002 |
| 0603 | 0.063" ±0.004 | 0.031" ±0.004 | 0.020" ±0.004 | 0.012" ±0.005 | 0.015" ±0.005 |
| 0805 | 0.081" ±0.005 | 0.050" ±0.005 | 0.020" ±0.006 | 0.016" ±0.008 | 0.016" ±0.008 |
| 1206 | 0.126" ±0.006 | 0.063" ±0.005 | 0.024" ±0.004 | 0.016" ±0.008 | 0.016" ±0.008 |

Environmental Data

| Environmental Test MIL-PRF-55342 | Thin Film Performance | |
|-------------------------------------|-----------------------------------|----------------|
| | MIL-PRF-55342 Characteristic H | Typical IRC ΔR |
| Thermal Shock | ±0.25% | ±0.02% |
| Low Temperature Operation | ±0.25% | ±0.01% |
| Short-time Overload | ±0.10% | ±0.01% |
| High Temperature Exposure | ±0.50% | ±0.03% |
| Resistance to Solder | ±0.25% | ±0.01% |
| Moisture Resistance | ±0.40% | ±0.03% |
| Life | ±2.0% | ±0.03% |

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Ordering Procedure

Example: D55342H07B1E00S (Style RM1206, ±50ppm/°C, specification number 07, SnPb termination, 1kΩ, ±1%, failure rate 0.001%/1000 hours)

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | 5 | 5 | 3 | 4 | 2 | H | 0 | 7 | B | 1 | E | 0 | 0 | S |
| 1 | | | | 2 | 3 | 4 | 5 | | | | 6 | | | |

| 1 Military Designator | | 2 Characteristic | | 3 Specification | | 4 Termination | | 5 Value & Tolerance | | 6 Product Level | |
|--------------------------|-------|---------------------|------------|--------------------|------|------------------|---------------|---|---|--------------------|--|
| M55342 | 0402, | E | 25ppm/°C | 11 | 0402 | B | SnPb | 4 character code. Letter code marks decimal position and indicates multiplier and tolerance - see table below. | C | Non-ER | |
| | 0603, | H | 50 ppm/°C | 12 | 0603 | | | | M | 1%/1000hrs | |
| | 0805 | K | 100 ppm/°C | 06 | 0805 | | | | P | 0.1%/1000hrs | |
| D55342 | 1206 | M | 300 ppm/°C | 07 | 1206 | R | 0.01%/1000hrs | | | | |
| | | | | | | | | | S | 0.001%/1000hrs | |
| | | | | | | | | | T | Space level | |

| Value & Tolerance Code | | Multiplier | | |
|------------------------|------|------------|--------|-----------|
| | | x1 | x 1000 | x1000,000 |
| Tolerance | 0.1% | A | B | C |
| | 1% | D | E | F |
| | 2% | G | H | T |
| | 5% | J | K | L |
| | 10% | M | N | P |

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[M55342E12B2B00T](#) [M55342K06B3B40R](#) [M55342K06B221DR](#) [M55342K06B100JR](#)