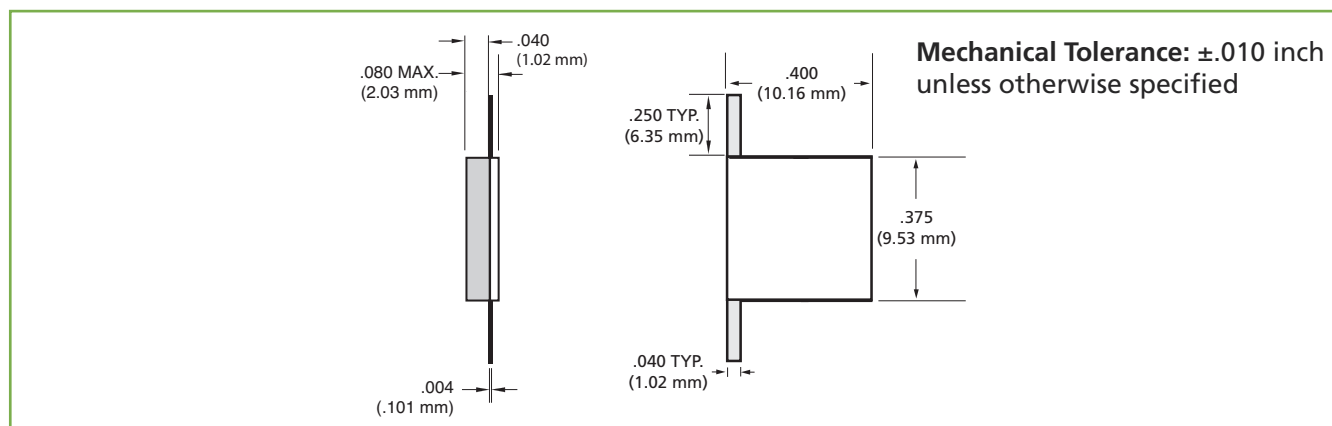


## High Power Leaded Chip Attenuators

### Style LA1

#### General Specifications

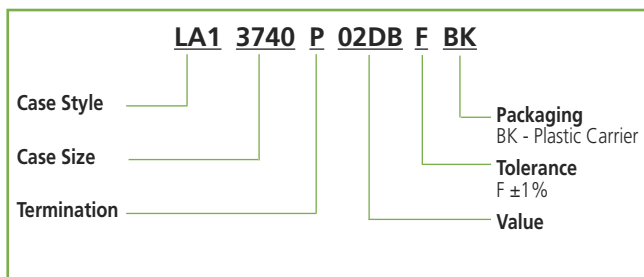
- **Frequency Range:** DC to 3 GHz
- **Input Power\*:** 150 Watts
- **Operating Temp Range:** -55 to +150°C
- **Attenuation Stability\*\*:** 0.0001 dB/dB/°C, Max.
- **Resistive Elements:** Tantalum Nitride
- **Substrate Material:** Aluminum Nitride
- **Tabs:** 99.99% Pure Silver, .004 inches thick, Cover: Alumina
- **RoHS Compliant**
- **Reliability:** MIL-PRF-55342



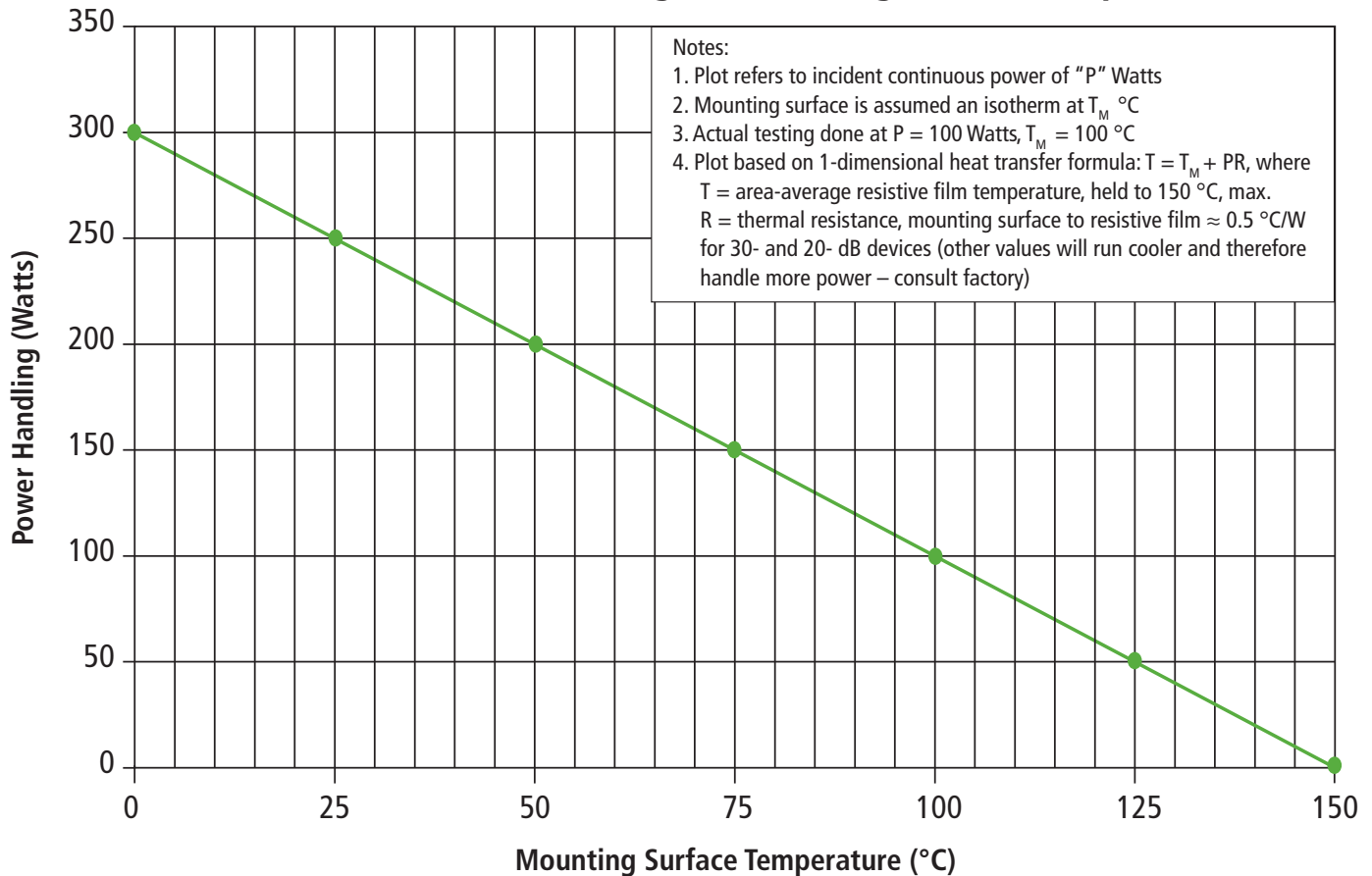
| ATC Part Number | Nominal Attenuation (dB) | Frequency Sensitivity (dB, max.) | Maximum Deviation from Nominal (dB) | VSWR (max.) |
|-----------------|--------------------------|----------------------------------|-------------------------------------|-------------|
| LA13740P01DBFBK | 1                        | ± 0.20                           | +0.45 / -0.15                       | 1.55        |
| LA13740P02DBFBK | 2                        | ± 0.30                           | 0.50 / -0.30                        | 1.50        |
| LA13740P03DBFBK | 3                        | ± 0.30                           | 0.60 / -0.30                        | 1.50        |
| LA13740P06DBFBK | 6                        | ± 0.30                           | +0.60 / -0.20                       | 1.30        |
| LA13740P09DBFBK | 9                        | ± 0.30                           | +0.60 / -0.20                       | 1.30        |
| LA13740P10DBFBK | 10                       | ± 0.20                           | +0.40 / -0.30                       | 1.25        |
| LA13740P17DBFBK | 17                       | ± 1.00                           | +1.00 / -1.20                       | 1.30        |
| LA13740P20DBFBK | 20                       | ± 1.00                           | +1.00 / -1.20                       | 1.25        |
| LA13740P30DBFBK | 30                       | ± 1.05                           | +1.75 / -1.20                       | 1.25        |

For Attenuator Power Handling vs. Mounting Surface Temperature, see following page.

### ATC Leaded Chip Attenuators Part Number Code



## Attenuator Power Handling vs. Mounting Surface Temperature



\* Test Condition: With mounting surface temperature = 75 °C, max. (see plot above). Actual test conditions are as follows: Flange attached to a large copper carrier whose surface, directly under the flange center, is held at 100 °C; power applied = 100 Watts. Specification: The attenuation shall change no more that 0.2 dB during and after a 100-hr. Burn-in per MIL-PRF-55342.

\*\* Attenuation vs. frequency as a function of temperature, -55°C to +125°C

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Excerpt from ATC # 001-944; Rev. U, 11/14

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