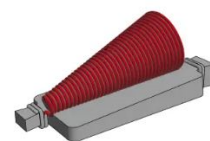




## PART SPECIFICATIONS

| Part Number             | L $\mu$ H<br>@<br>10 MHz | DCR<br>$\Omega$<br>NOM | Current<br>Rating<br>mA DC | Upper<br>Frequency<br>Limit<br>GHz | Turns | Wire Size<br>AWG |
|-------------------------|--------------------------|------------------------|----------------------------|------------------------------------|-------|------------------|
| POWDERED IRON CORE      |                          |                        |                            |                                    |       |                  |
| PPI-100SMNL-0R20-655-G6 | 0.20                     | 0.10                   | 655                        | 40                                 | 19    | 38               |
| PPI-100SMNR-0R20-655-G6 |                          |                        |                            |                                    |       |                  |
| PPI-100SMNL-0R44-452-G6 | 0.44                     | 0.21                   | 452                        | 40                                 | 25    | 40               |
| PPI-100SMNR-0R44-452-G6 |                          |                        |                            |                                    |       |                  |
| PPI-100SMNL-0R58-302-G6 | 0.58                     | 0.47                   | 302                        | 40                                 | 31    | 42               |
| PPI-100SMNR-0R58-302-G6 |                          |                        |                            |                                    |       |                  |
| PPI-100SMNL-1R00-241-G6 | 1.00                     | 0.74                   | 241                        | 40                                 | 39    | 44               |
| PPI-100SMNR-1R00-241-G6 |                          |                        |                            |                                    |       |                  |
| PPI-100SMNL-1R54-140-G6 | 1.54                     | 0.74                   | 241                        | 40                                 | 49    | 47               |
| PPI-100SMNR-1R54-140-G6 |                          |                        |                            |                                    |       |                  |

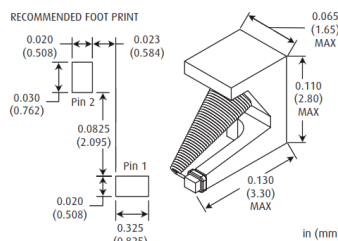
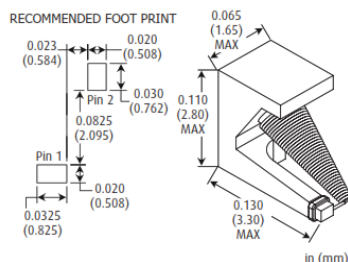
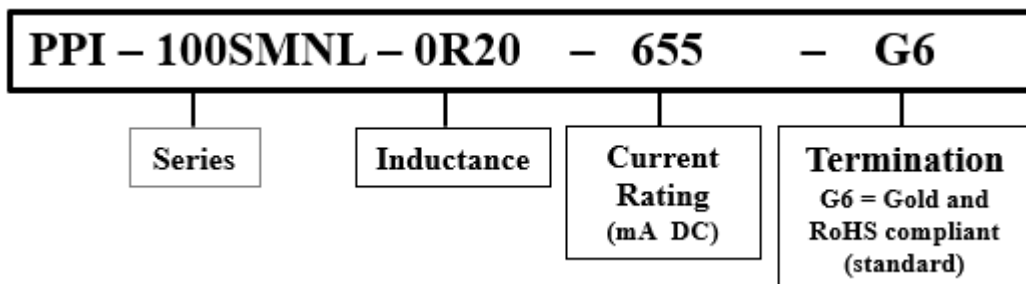


## PRODUCT FEATURES

|                             |                  |                |                                                                    |
|-----------------------------|------------------|----------------|--------------------------------------------------------------------|
| Operating Temperature Range | -55°C to + 125°C | Current Rating | Based on a 35°C temperature rise at an ambient temperature of 90°C |
| Wire Type                   | Copper           | Weight MAX     | 0.0135 grams                                                       |

- All non-tolerance and electrical data are reference only and based on nominal data
- Terminal is elongated to allow for soldering close to the tip of the coil
- Recommended that component is epoxied to substrate before reflow soldering
- Materials are fungus-inert to meet method 508 of MIL-STD-810H
- Meets a TML (Total Mass Loss) requirement of 1.0% maximum when tested in accordance with ASTM E595; this calculation does not include WVR (Water Vapor Recovered)
- Custom designs are available. Please contact PPI.

## PART NUMBER



Please note that the contents of this document are subject to change at any time at PPI's sole discretion. The most up-to-date version of this document is available at [www.passiveplus.com](http://www.passiveplus.com)



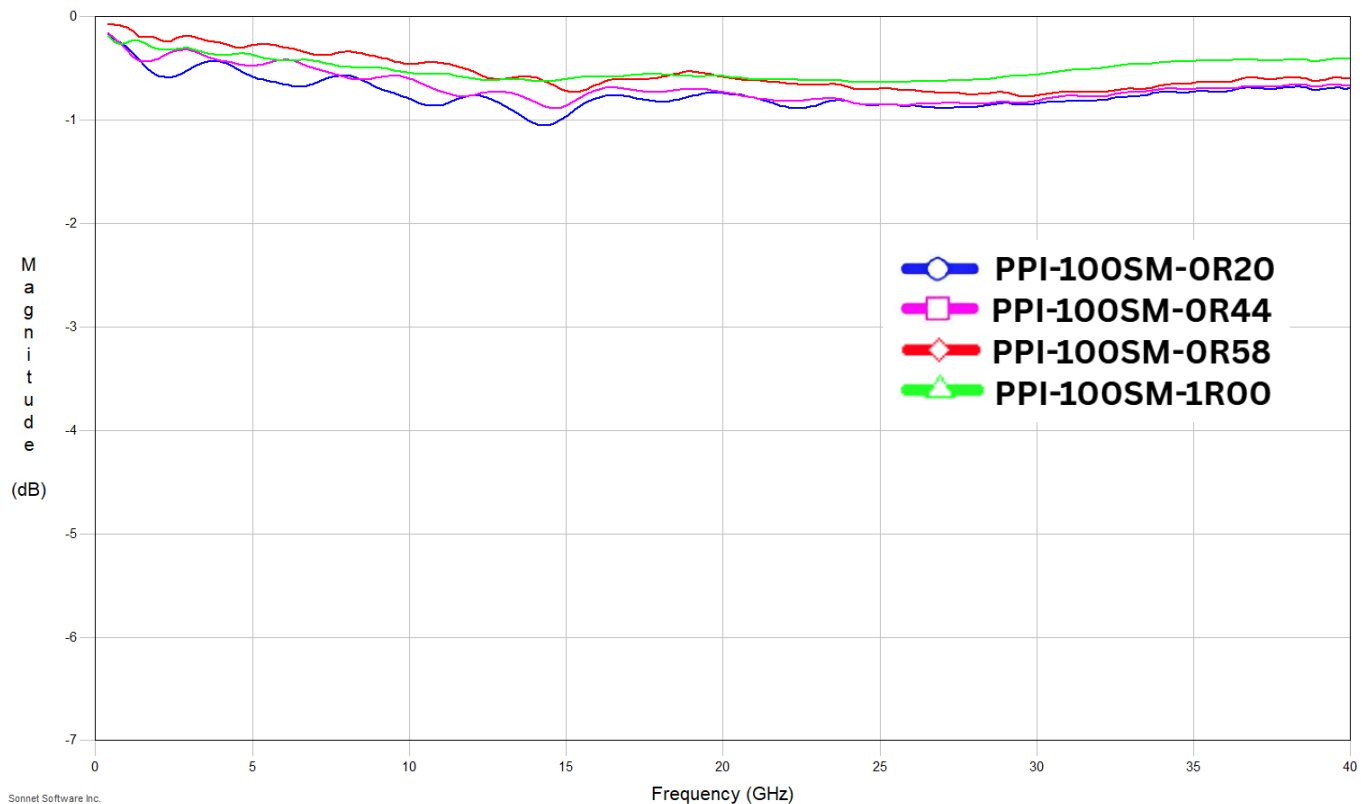
# Broadband Conical Surface Mount Inductor

**PPI-100SMxx Series**



## INSERTION LOSS

Inductors are mounted in two-port shunt configuration on 5 mil thick Alumina substrate.



Sonnet Software Inc.