



# Broadband Conical Flying Lead Inductor PPI-070FL Series

## PART SPECIFICATIONS



| Part Number            | L $\mu$ H<br>@<br>10 MHz | DCR $\Omega$<br>NOM | Current<br>Rating<br>mA DC | Upper<br>Frequency<br>Limit<br>GHz | Turns | Wire Size<br>AWG |
|------------------------|--------------------------|---------------------|----------------------------|------------------------------------|-------|------------------|
| POWDERED IRON CORE     |                          |                     |                            |                                    |       |                  |
| PPI-070FL-0R165-625-G6 | 0.165                    | 0.080               | 625                        | 110*                               | 15    | 38               |
| PPI-070FL-0R265-425-G6 | 0.265                    | 0.170               | 425                        | 110*                               | 20    | 40               |
| PPI-070FL-0R390-340-G6 | 0.390                    | 0.280               | 340                        | 110*                               | 25    | 42               |
| PPI-070FL-0R550-235-G6 | 0.550                    | 0.600               | 235                        | 110*                               | 30    | 44               |
| PPI-070FL-0R700-190-G6 | 0.700                    | 0.820               | 190                        | 110*                               | 34    | 45               |
| PPI-070FL-0R800-175-G6 | 0.800                    | 1.00                | 175                        | 110*                               | 38    | 46               |
| PPI-070FL-1R050-150-G6 | 1.050                    | 1.50                | 150                        | 110*                               | 43    | 47               |

\*based on substrate

## PRODUCT FEATURES

|                             |                  |                |                                                                       |
|-----------------------------|------------------|----------------|-----------------------------------------------------------------------|
| Operating Temperature Range | -55°C to + 125°C | Current Rating | Based on a 35°C temperature rise<br>at an ambient temperature of 90°C |
| Wire Type                   | Copper           | Weight MAX     | 0.0069 grams                                                          |

- All non-tolerance and electrical data are reference only and based on nominal data
- 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

**PPI – 070FL – 0R165 – 625 – G6**

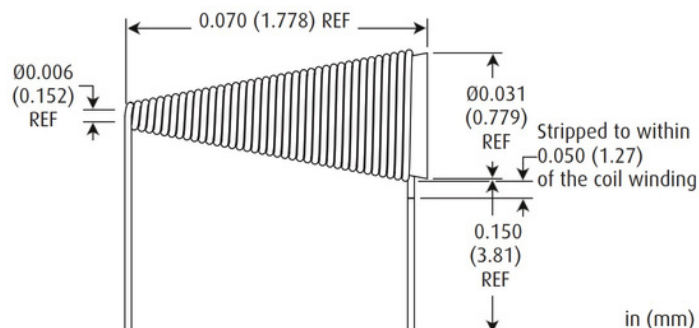


Series

Inductance

Current  
Rating  
(mA DC)

Termination  
G6 = Gold and  
RoHS compliant  
(standard)



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).

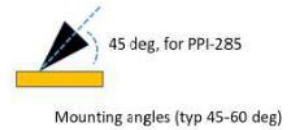


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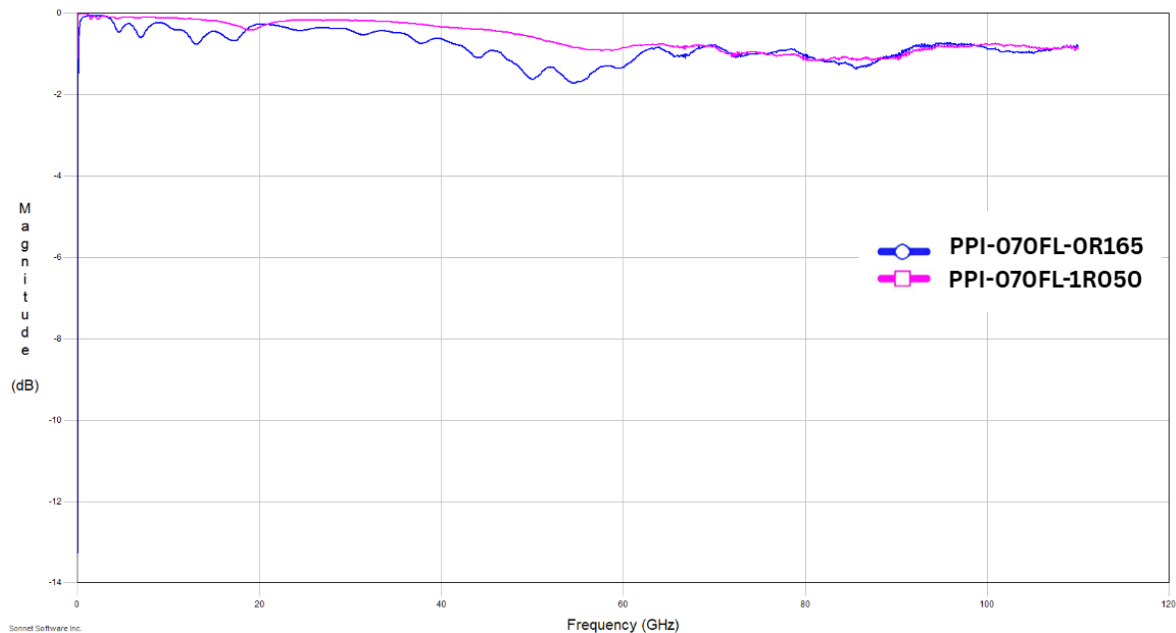
## PPI-070FL Series



### INSERTION LOSS



Inductors are mounted in two-port shunt configuration on 5 mil Rogers 3003G2. Mounting angle is 45 degrees.



Inductors are mounted in two-port shunt configuration on 10 mil Rogers 4350B. Mounting angle is 45 degrees.

