

7/16 DIN M/F Quarter Wave RF Protector, 555MHz to 4.5GHz, Low PIM



## QWP-D MDF-ER

### Features

- Extended Range Broadband Performance from 555 to 4,500 MHz
- DC Block Topology
- Repetitive Strike Protection
- Low PIM

### Applications

- CBRS Networks
- Cellular
- Distributed Antenna Systems (DAS)
- Emergency Response Systems
- Public Safety Systems

### Description

RF surge protector (also known as lightning arrestor) QWP-D MDF-ER from PolyPhaser utilizing a quarter wave stub design to protect critical hardware while maintaining the RF performance. This RF surge protector component is manufactured in a coaxial in-line design with wide operating frequency range. PolyPhaser RF surge protector products are available in stock with same day shipping.

### Electrical Specifications

Surge Protector Type

Quarter Wave Stub

| Description                           | Minimum | Typical | Maximum | Units |
|---------------------------------------|---------|---------|---------|-------|
| Frequency Range                       | 0.555   |         | 4.5     | GHz   |
| Impedance                             |         | 50      |         | Ohms  |
| VSWR                                  |         |         | 1.18:1  |       |
| Insertion Loss                        |         |         | 0.1     | dB    |
| Passive Intermodulation               |         |         | 160     | dBc   |
| Input Power, CW                       |         |         | 500     | Watts |
| Surge Current<br>IEC 61000-4-5 8/20µs |         |         | 50      | kA    |

### Mechanical Specifications

#### Size

|                |                    |
|----------------|--------------------|
| Length         | 2.87 in [72.9 mm]  |
| Width/Diameter | 0.98 in [24.89 mm] |
| Height         | 1.47 in [37.34 mm] |
| Weight         | 0.5 lbs [226.8 g]  |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications:  
[7/16 DIN M/F Quarter Wave RF Protector, 555MHz to 4.5GHz, Low PIM QWP-D MDF-ER](#)

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## QWP-D MDF-ER

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|                              |                  |
|------------------------------|------------------|
| Housing Material and Plating | Brass, Tri-metal |
| <b>Configuration</b>         |                  |
| Input Connector              | 7/16 DIN Male    |
| Output Connector             | 7/16 DIN Female  |

### Environmental Specifications

|                    |                  |
|--------------------|------------------|
| <b>Temperature</b> |                  |
| Operating Range    | -40 to +85 deg C |

PolyPhaser protects and increases the reliability of global RF communications networks, including transportation, telecommunications, defense, security and industrial applications, with superior RF surge protection technologies including DC Block, DC Pass and Ultra Low PIM. Backed by responsive service and expert technical support PolyPhaser continually expands its product offering and services to serve engineers' urgent needs for RF components in mission critical communication networks.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [7/16 DIN M/F Quarter Wave RF Protector, 555MHz to 4.5GHz, Low PIM QWP-D MDF-ER](https://www.polyphaser.com/7-16-surge-protector-4.5ghz-quarter-wave-stub-qwp-dmdf-er-p.aspx)

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The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. PolyPhaser reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. PolyPhaser does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and PolyPhaser does not assume any liability arising out of the use of any part or documentation.

QWP-DMDF-ER CAD Drawing

| REVISIONS |                 |            |
|-----------|-----------------|------------|
| REV.      | DESCRIPTION     | DATE       |
| A         | INITIAL RELEASE | 05/25/2022 |
|           | APPROVED        | DREBECK    |

  
  

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES:

|  |  |   |
|--|--|---|
| X = ± 2 [5.08]                           | FRACTIONS ± 1/32                           | ANGLES ± 1°                                 |
| .XX = ± 0.02 [51]                        | .XXX = ± 0.005 [13]                        |   |
| CABLE LENGTH (L) TOLERANCES:             |  |   |
| 12 [305] < L ≤ 60 [1524] = ± 1 [25] / -0 | 60 [1524] < L ≤ 120 [3048] = +4 [102] / -0 | 120 [3048] < L ≤ 300 [7620] = +6 [152] / -0 |
| 300 [7620] < L = +5% / -0                |  |   |

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

  

THIRD-ANGLE PROJECTION

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SCALE N/A

REV A

PolyPhaser

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NOTES:

- SEE LABEL SPECIFICATION ILS-100. FOR INTERNAL REFERENCE ONLY.

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