

4.3-10 Female to 4.3-10 Male CBRN/Cellular RF  
Surge Protector, 555MHz - 4.5GHz, Low PIM



**QWP-43F43M-ER**

**Features**

- Extended Range Broadband Performance from 555 to 4500 MHz
- DC Block Topology
- Repetitive Strike Protection
- Low PIM

**Applications**

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

**Description**

RF surge protector (also known as lightning arrester) QWP-43F43M-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**

Description	Surge Protector Type DC Handling			Units
	Minimum	Typical	Maximum	
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			50	kA
IEC 61000-4-5 8/20µs				

**Mechanical Specifications**

**Size**

Length	3.09 in [78.49 mm]
Width/Diameter	0.98 in [24.89 mm]
Height	1.47 in [37.34 mm]
Weight	0.5 lbs [226.8 g]
Housing Material and Plating	Brass, Tri-Metal

**Configuration**

Input Connector	4.3-10 Male
Output Connector	4.3-10 Female

**Environmental Specifications**

**Temperature**

Operating Range	-40 to +85 deg C
Ingress Protection (IP) Rating	Pin to Shield

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**Compliance Certifications** (see [product page](#) for current document)

### Plotted and Other Data

Notes:

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.

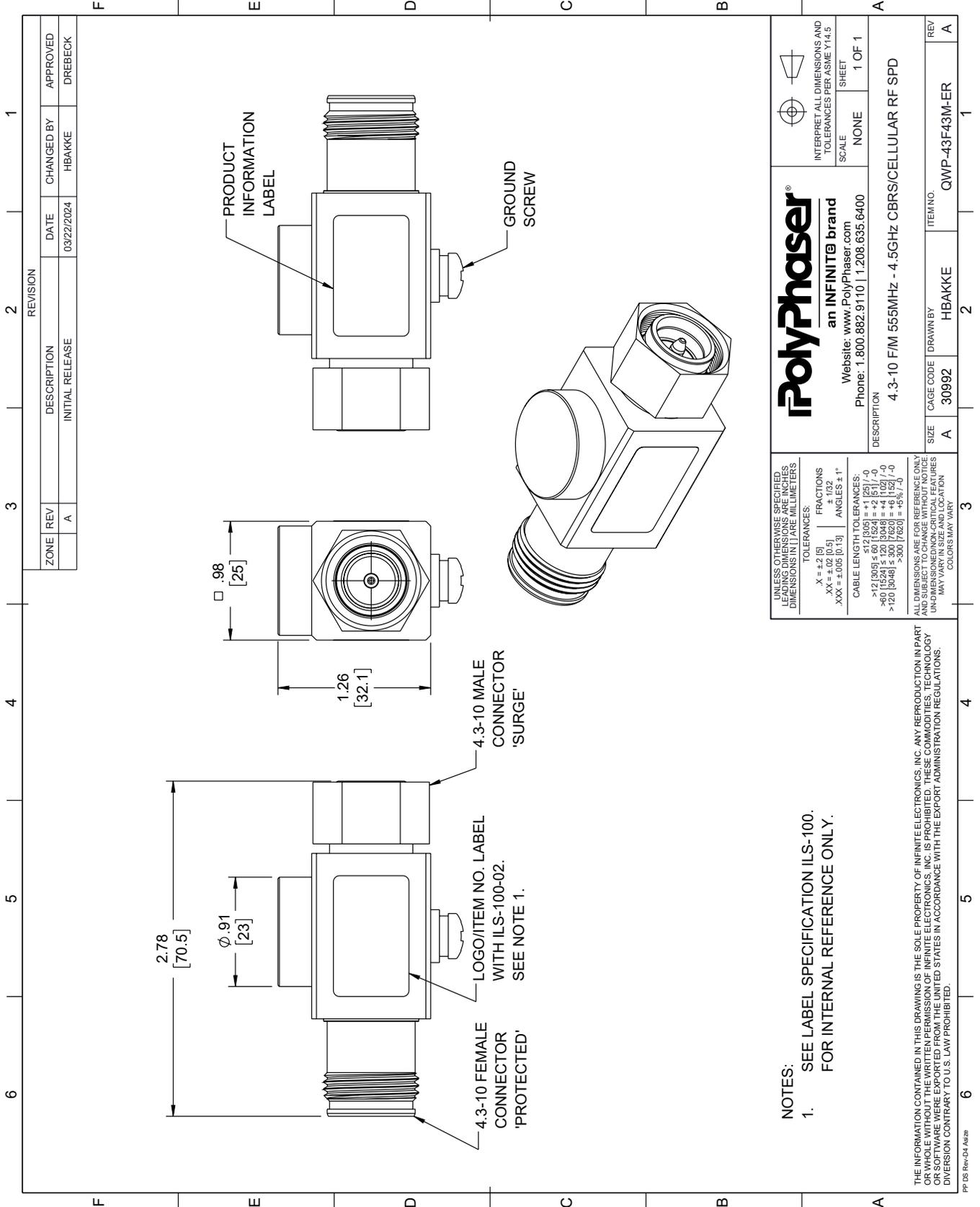
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [4.3-10 Female to 4.3-10 Male CBRs/Cellular RF Surge Protector, 555MHz - 4.5GHz, Low PIM QWP-43F43M-ER](#)

URL: <https://www.polyphaser.com/4.3-10-surge-protector-4.5ghz-qwp-43f43m-er-p.aspx>

The information contained within 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 liability arising out of the use of any part or document.

# QWP-43F43M-ER CAD Drawing

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**PolyPhaser®**  
 an INFINITE® brand  
 Website: www.PolyPhaser.com  
 Phone: 1.800.882.9110 | 1.208.635.6400

UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES AND DIMENSIONS IN [ ] ARE MILLIMETERS.  
 TOLERANCES: X = ±.2 [5] FRACTIONS ±.132  
 .XX = ±.02 [0.5] ANGLES ± 1°  
 .XXX = ±.005 [0.13]  
 CABLE LENGTH TOLERANCES:  
 >12 [305] ≤ 60 [1524] = ±.1 [2.5] / -0  
 >60 [1524] ≤ 120 [3048] = ±.4 [102] / -0  
 >120 [3048] ≤ 300 [7620] = ±.8 [20] / -0  
 ALL DIMENSIONS ARE FOR REFERENCE ONLY! UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES AND DIMENSIONS IN [ ] ARE MILLIMETERS. UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES AND DIMENSIONS IN [ ] ARE MILLIMETERS. COLORS MAY VARY.

DESCRIPTION: 4.3-10 FIM 555MHz - 4.5GHz CBRs/CELLULAR RF SPD  
 SIZE: A  
 CAGE CODE: 30992  
 DRAWN BY: HBAKKE  
 ITEM NO.: QWP-43F43M-ER  
 SHEET: 1 OF 1

NOTES:  
 1. SEE LABEL SPECIFICATION ILS-100. FOR INTERNAL REFERENCE ONLY.

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