

2.2-5-Male to 2.2-5-Female Low PIM Quarter Wave Protector, 555MHz to 4.5GHz



QWP-22M22F-ER

Features

- Extended Range Broadband Performance from 555 to 4500 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-22M22F-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
DC Handling

Quarter Wave Stub
DC Block

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			300	Watts
Surge Current IEC 61000-4-5 8/20µs			50	kA

Mechanical Specifications

Size

Length	3.05 in [77.47 mm]
Width/Diameter	0.98 in [24.89 mm]
Height	1.54 in [39.12 mm]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications:
[2.2-5-Male to 2.2-5-Female Low PIM Quarter Wave Protector, 555MHz to 4.5GHz QWP-22M22F-ER](#)

2.2-5-Male to 2.2-5-Female Low PIM Quarter
Wave Protector, 555MHz to 4.5GHz



QWP-22M22F-ER

Weight	0.5 lbs [226.8 g]
Housing Material and Plating	Brass, Tri-Metal
Configuration	
Input Connector	2.2-5 Male
Output Connector	2.2-5 Female

Environmental Specifications

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

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: [2.2-5-Male to 2.2-5-Female Low PIM Quarter Wave Protector, 555MHz to 4.5GHz QWP-22M22F-ER](https://www.polyphaser.com/2.2-5-surge-protector-4.5ghz-quarter-wave-stub-qwp-22m22f-er-p.aspx)

URL: <https://www.polyphaser.com/2.2-5-surge-protector-4.5ghz-quarter-wave-stub-qwp-22m22f-er-p.aspx>

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.

2.2-5-Male to 2.2-5-Female Low PIM Quarter Wave Protector, 555MHz to 4.5GHz

QWP-22M22F-ER CAD Drawing

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	11/01/2022	DREBECK

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

TOLERANCES:

X = ± 2	[5.08]	FRACTIONS	
.XX = ± 0.02	[.51]		± 1/32
.XXX = ± 0.005	[.13]		ANGLES ± 1°

CABLE LENGTH (L) TOLERANCES:

L ≤ 12	[305]	± 1 [25] / -0
12 [305] < L ≤ 60	[1524]	± 2 [51] / -0
60 [1524] < L ≤ 120	[3048]	± 4 [102] / -0
120 [3048] < L ≤ 300	[7620]	± 6 [152] / -0
300 [7620] < L		± 5% [L] / -0

ALL DIMENSIONS SHOWN
ARE FOR REFERENCE ONLY.

THIRD-ANGLE PROJECTION

THE INFORMATION AND DESIGN ARE THE PROPERTY OF POLYPHASER, INC. ALL RIGHTS RESERVED.

SHEET 1 OF 1

SCALE N/A

ITEM NO. QWP-22M22F-ER

REV A

PolyPhaser
an INFINITE brand

10701 Airport Road, Hayden, Idaho 83835, USA
Phone: 1.208.635.6400 | 1.800.882.9110
Fax: 1.208.762.6133
Website: www.PolyPhaser.com
E-mail: CustomerService@PolyPhaser.com

SIZE A CAGE CODE 30992 DRAWN BY HBAKKE

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

THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.