

1 dB Fixed Attenuator, QMA Male to QMA Female
Brass Tri-Metal Body Rated to 2 Watts Up to 6 GHz



PE7520-1

Features

- DC to 6 GHz Range
- QMA Connectorized Design
- Attenuation 1 ±0.5 dB
- Max Power 2 Watts (CW)
- VSWR 1.3:1

Applications

- Instrumentation
- Precision Measurements
- Prototyping and Characterization
- Production Systems
- 5G Cellular Bands
- DAS Systems

Description

Pasternack carries a wide range of fixed attenuators with a broad selection of attenuation levels, frequency ranges, and power dissipation ranges. RF microwave attenuators (also known as RF pads) lower the amplitude of a signal (attenuate) a known amount and can be used in a wide variety of applications. These attenuators pads are used when a signal needs to be reduced to protect measurement equipment or other circuitry, to extend the range of power meters and amplifiers, and to impedance match circuits by reducing the VSWR seen by adjacent components. RF attenuators can prevent signal overload in amplifiers, receivers and detectors, adjusting the signal level to a range that is optimal.

Few RF components are as commonly used as fixed coaxial attenuators, and Pasternack carries one of the largest in-stock varieties and ships them same day. The 1 dB Fixed Attenuators PE7520-1 is rated to 2 Watts and operates from DC to 6 GHz. The versatile coaxial package uses QMA male to QMA female connectors.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	GHz
Impedance		50		Ohms
Nominal Attenuation		1		dB
Attenuation Accuracy		0.5		dB
VSWR			1.3:1	
Input Power, CW			2	Watts

Mechanical Specifications

Size

- Length 1.248 in [31.7 mm]
- Width/Diameter 0.413 in [10.49 mm]
- Weight 0.02 lbs [9.07 g]
- Body Material and Plating Brass, Tri-Metal

Configuration

- Design Fixed, Bidirectional
- Design Type Standard
- Package Style Connectorized

1 dB Fixed Attenuator, QMA Male to QMA Female
Brass Tri-Metal Body Rated to 2 Watts Up to 6 GHz



PE7520-1

Connectors

Description	Connector 1	Connector 2
Type	QMA Male	QMA Female
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal

Environmental Specifications

Temperature

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

Plotted and Other Data

Notes:

Typical Performance Data

1 dB Fixed Attenuator, QMA Male to QMA Female Brass Tri-Metal Body Rated to 2 Watts Up to 6 GHz from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

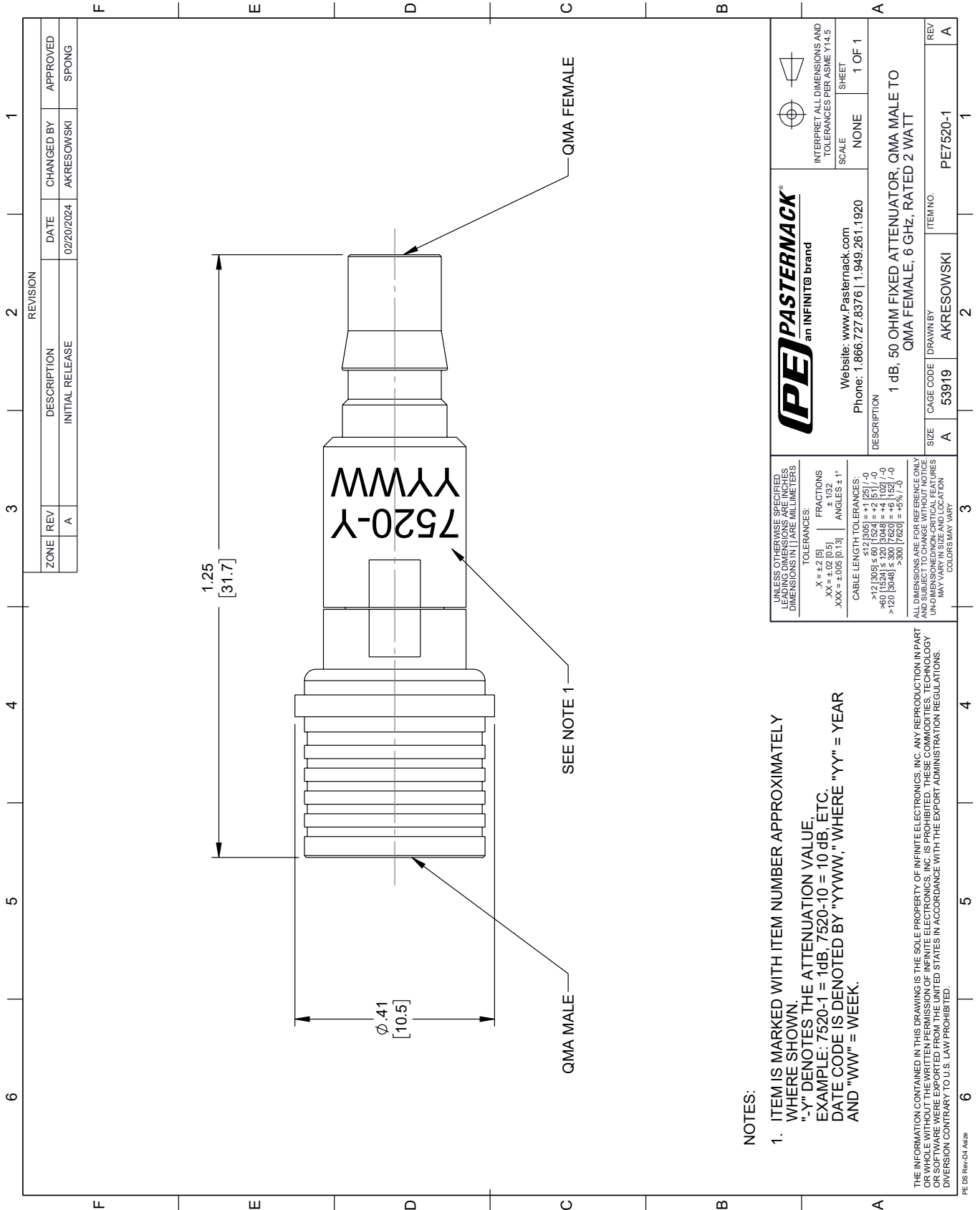
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [1 dB Fixed Attenuator, QMA Male to QMA Female Brass Tri-Metal Body Rated to 2 Watts Up to 6 GHz PE7520-1](#)

URL: <https://www.pasternack.com/1db-fixed-qma-male-qma-female-2-watts-attenuator-pe7520-1-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. Pasternack Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

PE7520-1 CAD Drawing

1 dB Fixed Attenuator, QMA Male to QMA Female Brass Tri-Metal Body Rated to 2 Watts Up to 6 GHz



NOTES:

- ITEM IS MARKED WITH ITEM NUMBER APPROXIMATELY WHERE SHOWN.
 "-Y" DENOTES THE ATTENUATION VALUE.
 EXAMPLE: 7520-1 = 1dB, 7520-10 = 10 dB, ETC.
 DATE CODE IS DENOTED BY "YYWW", WHERE "YY" = YEAR
 AND "WW" = WEEK.

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF INFINITE ELECTRONICS, INC. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF INFINITE ELECTRONICS, INC. IS PROHIBITED. THESE COMMODITIES, TECHNOLOGY OR SERVICES ARE BEING EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVISION CONTRARY TO U.S. LAW PROHIBITED.

PE DS Rev-D4 Add2

UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES. DIMENSIONS IN [] ARE MILLIMETERS.	
TOLERANCES:	FRACTIONS
.X = ±.2 [5]	± 1/32
.XX = ±.02 [0.5]	± 1/64
.XXX = ±.005 [0.13]	ANGLES ± 1°
CABLE LENGTH TOLERANCES:	
<12 [305]	±.12 [3.05]
>12 [305] ≤ 60 [1524]	±.25 [6.35]
>60 [1524] ≤ 120 [3048]	±.5 [12.7]
>120 [3048]	±.75 [19.05]
ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNDIMENSIONED NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.	

Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SCALE: NONE SHEET: 1 OF 1	
DESCRIPTION: 1 dB, 50 OHM FIXED ATTENUATOR, QMA MALE TO QMA FEMALE, 6 GHz, RATED 2 WATT			
SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	53919	AKRESOWSKI	PE7520-1
REV			A