



Mini SMP Female Connector Solder Attachment for PE-047SR, PE-SR047AL, PE-SR047FL

RF Connectors Technical Data Sheet

PE44491

Configuration

- Mini SMP Female Connector
- MIL-STD-348A
- 50 Ohms
- Straight Body Geometry
- PE-047SR, PE-SR047AL, PE-SR047FL Interface Type
- Solder Attachment

Features

- Max. Operating Frequency 65 GHz
- Good VSWR of 1.68:1
- Gold Plated Beryllium Copper Contact
- Blind Mate Connector

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

Pasternack's PE44491 Mini SMP female connector with solder attachment for PE-047SR, PE-SR047AL and PE-SR047FL is part of our full line of RF components available for same-day shipping. Our Mini SMP female connector operates up to a maximum frequency of 65 GHz and offers good VSWR of 1.68:1. The Pasternack blind mate connector is ideal for applications where direct visual or tactile access to the connection point is not possible, for example, when two circuit boards need to be mated.

Our Mini SMP female connector PE44491 datasheet specifications and drawing with dimensions are shown below in this PDF. Pasternack's broad catalog of RF, microwave and millimeter wave connectors allows designers to configure and customize their signal connections however they like. Whether the need is to provide an I/O for a board design, or simply create a custom cable assembly configuration, Pasternack has the right connector for the job. Pasternack can also expertly build your custom cable assemblies for you and ship same-day.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		65	GHz
VSWR			1.68:1	
Operating Voltage (AC)			325	Vrms
Inner Conductor DC Resistance			6	mOhms
Outer Conductor DC Resistance			2	mOhms
Insulation Resistance	5,000			MOhms

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 18	18 to 40	40 to 65			GHz
VSWR, Max	1.11:1	1.33:1	1.68:1			

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Mini SMP Female Connector Solder Attachment for PE-047SR, PE-SR047AL, PE-SR047FL PE44491](#)



Mini SMP Female Connector Solder Attachment
for PE-047SR, PE-SR047AL, PE-SR047FL

RF Connectors Technical Data Sheet

PE44491

Electrical Specification Notes:
Insertion loss = 0.04 x sqrt(fGHz) dB max up to 26.5 GHz.

Mechanical Specifications

Size

Length 0.26 in [6.6 mm]
Width/Dia. 0.13 in [3.30 mm]
Weight 0.006 lbs [2.72 g]

Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold
Insulation	PTFE	
Body	Beryllium Copper	Gold

Mechanical Specification Notes:
Mating cycles: 500 (smooth bore), 100 (full detent) minimum.

Environmental Specifications

Temperature

Operating Range -55 to +155 deg C
Humidity MIL-STD-202, Method 106
Shock MIL-STD-202, Method 213, Condition A
Vibration MIL-STD-202, Method 204, Condition A
Thermal Shock MIL-STD-202, Method 107, Condition B

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Mini SMP Female Connector Solder Attachment for PE-047SR, PE-SR047AL, PE-SR047FL PE44491](#)



Mini SMP Female Connector Solder Attachment
for PE-047SR, PE-SR047AL, PE-SR047FL

RF Connectors Technical Data Sheet

PE44491

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

Plotted and Other Data

Notes:

Mini SMP Female Connector Solder Attachment for PE-047SR, PE-SR047AL, PE-SR047FL from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

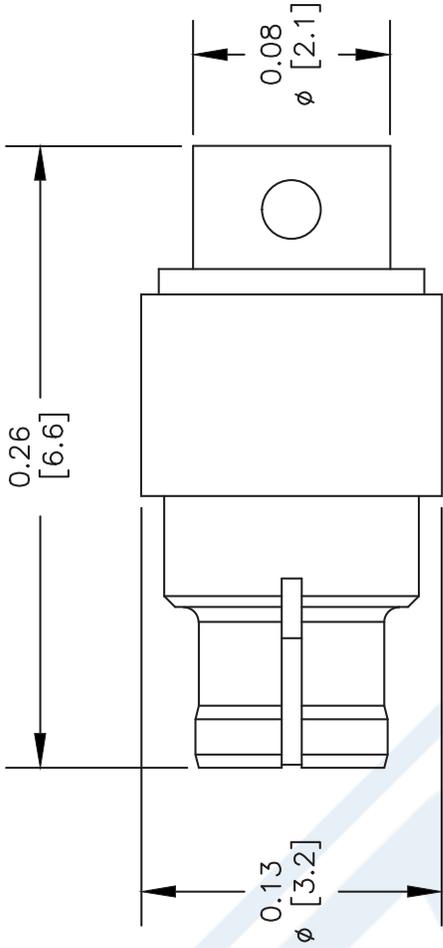
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Mini SMP Female Connector Solder Attachment for PE-047SR, PE-SR047AL, PE-SR047FL PE44491](#)

URL: <https://www.pasternack.com/mini-smp-female-standard-pe-047sr-pe-sr047al-pe-sr047fl-connector-pe44491-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. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

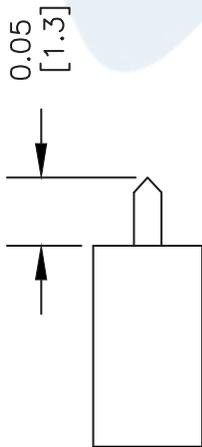
PE44491 CAD Drawing

Mini SMP Female Connector Solder Attachment for PE-047SR, PE-SR047AL, PE-SR047FL

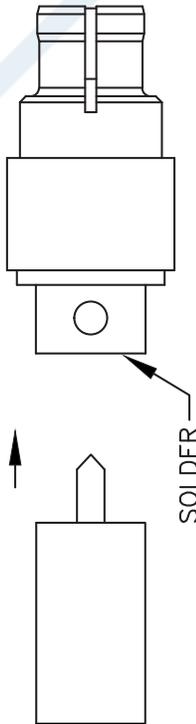


ASSEMBLY PROCEDURES

1. STRIP CABLE AS SHOWN. DO NOT NICK CENTER CONDUCTOR.



2. INSERT CABLE AND CONTACT INTO CONNECTOR BODY UNTIL FULLY ENGAGED. SOLDER BODY TO CABLE.



NOTES:
 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
 3. DIMENSIONS ARE IN INCHES [mm].

DWG TITLE

PE44491

REV. A

FSCM NO. 53919

CAD FILE 020212

SCALE N/A

SIZE A

2233



PASTERNAK®
 Pasternack Enterprises, Inc.
 P.O. Box 16759 | Irvine | CA | 92623

Phone: (949) 261-1920 | Fax: (949) 261-7451

Website: www.pasternack.com | E-Mail: sales@pasternack.com



TNC Female Bulkhead Mount Connector
 Clamp/Solder Attachment for PE-047SR, PE-
 SR047AL, PE-SR047FL, IP68 Rated

RF Connectors Technical Data Sheet

PE44897

Configuration

- TNC Female Connector
- MIL-STD-348
- 50 Ohms
- Straight Body Geometry
- PE-047SR, PE-SR047AL, PE-SR047FL Interface Type
- Clamp/Solder Attachment
- Bulkhead

Features

- Max. Operating Frequency 2 GHz
- Gold Plated Beryllium Copper Contact
- IP68 Rated

Applications

- General Purpose Test
- Rack and Panel Mount Applications
- Custom Cable Assemblies

Description

Pasternack's PE44897 TNC female bulkhead connector with clamp/solder attachment for PE-047SR, PE-SR047AL and PE-SR047FL is part of our full line of RF components available for same-day shipping. Our TNC female connector operates up to a maximum frequency of 2 GHz. This TNC bulkhead connector allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications. The connector has an IP68 rating to protect against dust and prolonged moisture protection under immersion conditions.

Our TNC female bulkhead connector PE44897 datasheet specifications and drawing with dimensions are shown below in this PDF. Pasternack's broad catalog of RF, microwave and millimeter wave connectors allows designers to configure and customize their signal connections however they like. Whether the need is to provide an I/O for a board design, or simply create a custom cable assembly configuration, Pasternack has the right connector for the job. Pasternack can also expertly build your custom cable assemblies for you and ship same-day.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		2	GHz

Mechanical Specifications

Size	
Length	1 in [25.4 mm]
Width/Dia.	0.687 in [17.45 mm]
Weight	0.04 lbs [18.14 g]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [TNC Female Bulkhead Mount Connector Clamp/Solder Attachment for PE-047SR, PE-SR047AL, PE-SR047FL, IP68 Rated PE44897](#)



TNC Female Bulkhead Mount Connector
 Clamp/Solder Attachment for PE-047SR, PE-
 SR047AL, PE-SR047FL, IP68 Rated

RF Connectors Technical Data Sheet

PE44897

Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold
Insulation	PTFE	
Body	Brass	Nickel

Environmental Specifications

Temperature

Operating Range

-65 to +165 deg C

Ingress Protection (IP) Rating

IP68 Rated

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

Plotted and Other Data

Notes:

TNC Female Bulkhead Mount Connector Clamp/Solder Attachment for PE-047SR, PE-SR047AL, PE-SR047FL, IP68 Rated from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

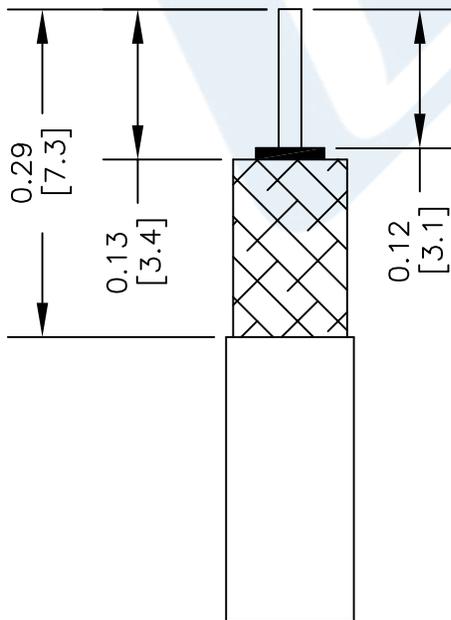
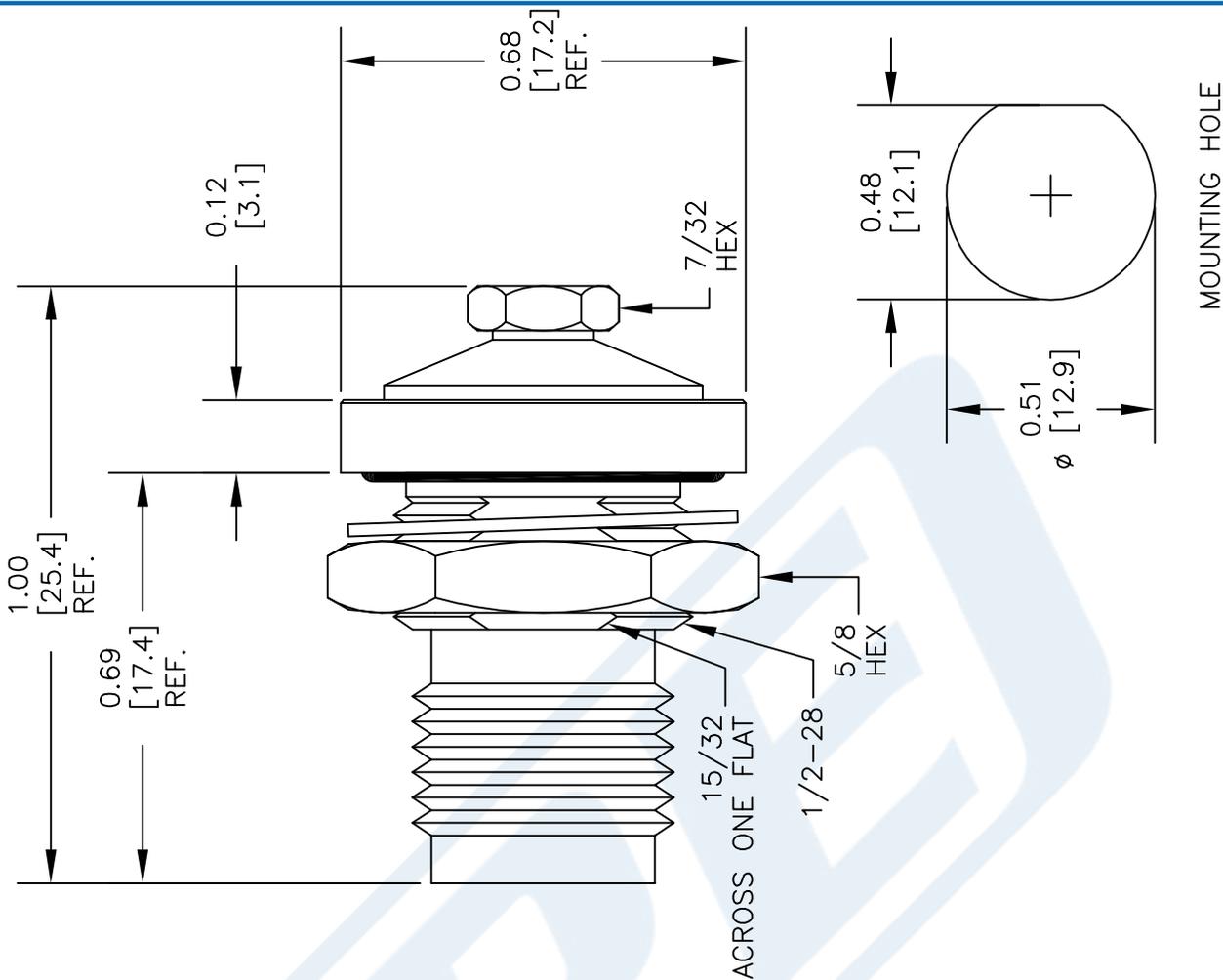
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [TNC Female Bulkhead Mount Connector Clamp/Solder Attachment for PE-047SR, PE-SR047AL, PE-SR047FL, IP68 Rated PE44897](#)

URL: <https://www.pasternack.com/tnc-female-standard-pe-047sr-pe-sr047al-pe-sr047fl-connector-pe44897-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. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

PE44897 CAD Drawing

TNC Female Bulkhead Mount Connector Clamp/Solder Attachment
for PE-047SR, PE-SR047AL, PE-SR047FL, IP68 Rated



STRIPPING DIMENSIONS

ASSEMBLY PROCEDURES

1. TRIM CABLE AS SHOWN
2. SLIDE CRIMP FERRULE & BACK NUT ONTO CABLE
3. CRIMP FERRULE USING 0.151" HEX DIE
4. CRIMP OR SOLDER BULLET CONTACT TO THE CENTER CONDUCTOR, INSERT CABLE WITH BULLET CONTACT INTO BODY
5. APPLY THREAD LOCKING ADHESIVE ON THE THREADS OF THE BACK NUT
6. TORQUE BACK NUT TO 15 INCH-LBS

CRIMP SIZE REQUIRED

CONTACT: CRIMP OR SOLDER
FERRULE: .151" HEX CRIMP TOOL

DWG TITLE

PE44897

- NOTES:
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
 3. DIMENSIONS ARE IN INCHES (mm).
 4. FITS MIL-C-17 AND EQUIVALENT CABLES.

FSCM NO. 53919

CAD FILE 061014

SCALE N/A

SIZE A

150



Pasternack Enterprises, Inc.
P.O. Box 16759 | Irvine | CA | 92623
Phone: (949) 261-1920 | Fax: (949) 261-7451
Website: www.pasternack.com | E-Mail: sales@pasternack.com

Flexible Version of 047 Semi-rigid Coax Cable Double Shielded with Blue FEP Jacket

TECHNICAL DATA SHEET

PE-P047

Flexible Version of 047 Semi-rigid Coax Cable Double Shielded with Blue FEP Jacket

Configuration

Inner Conductor Material and Plating	Copper, Silver
Dielectric Type	FEP
Shield Materials	Silver Plated Copper Tape, Silver Plated Copper Braid
Jacket Material and Color	FEP, Blue

Electrical Specifications

Impedance, Ohms	50
Velocity of Propagation, %	70
Maximum Operating Frequency, GHz	20
RF Shielding, dB	90
Capacitance, pF/ft [pF/m]	29 [95.14]

Electrical Specifications by Frequency

Frequency 1

Frequency, MHz	500
Attenuation, dB/100ft [dB/100m]	25 [82.02]
Power Handling, Watts	61

Frequency 2

Frequency, MHz	1000
Attenuation, dB/100ft [dB/100m]	35 [114.83]
Power Handling, Watts	43

Frequency 3

Frequency, GHz	2
Attenuation, dB/100ft [dB/100m]	52 [170.6]
Power Handling, Watts	30

Frequency 4

Frequency, GHz	4
Attenuation, dB/100ft [dB/100m]	80 [262.47]
Power Handling, Watts	20

Frequency 5

Frequency, GHz	8
Attenuation, dB/100ft [dB/100m]	120 [393.7]
Power Handling, Watts	13

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Flexible Version of 047 Semi-rigid Coax Cable Double Shielded with Blue FEP Jacket PE-P047](#)

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. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal.

Flexible Version of 047 Semi-rigid Coax Cable Double Shielded with Blue FEP Jacket

TECHNICAL DATA SHEET

PE-P047

Frequency 6

Frequency, GHz	12
Attenuation, dB/100ft [dB/100m]	140 [459.32]
Power Handling, Watts	10

Frequency 7

Frequency, GHz	18
Attenuation, dB/100ft [dB/100m]	180 [590.55]
Power Handling, Watts	8

Mechanical Specifications

Temperature

Operating Range, deg C	-65 to +165
------------------------	-------------

Inner Conductor

Number of Strands	1
Material	Copper
Plating	Silver
Diameter, in [mm]	0.011 [0.28]

Dielectric:

Type	FEP
Diameter, in [mm]	0.036 [0.91]

Shield:

Number of	2
Material 1	Silver Plated Copper Tape
Material 2	Silver Plated Copper Braid
Diameter, in [mm]	0.046 [1.17]

Jacket:

Material	FEP
Diameter, in [mm]	0.056 [1.42]
Color	Blue
One Time Minimum Bend Radius, in [mm]	0.2 [5.08]
Repeated Minimum Bend Radius, in [mm]	0.4 [10.16]
Weight, lbs/ft [Kg/m]	0.004 [0.01]

Compliance Certifications (visit www.Pasternack.com for current document)

RoHS Compliant	Yes
----------------	-----

Plotted and Other Data

Notes: Values at 25 °C, sea level

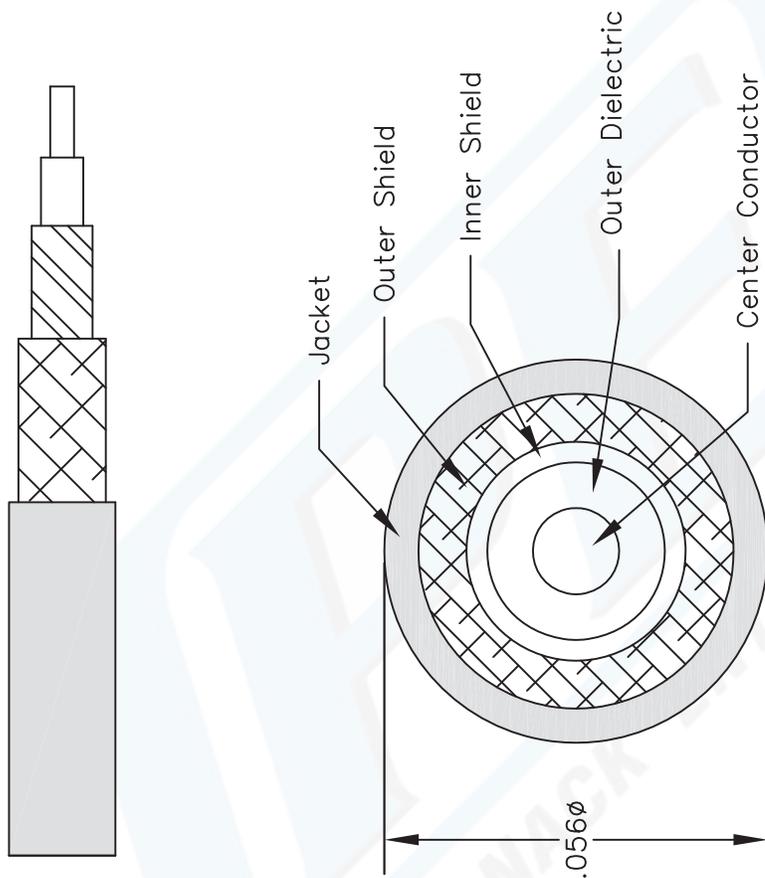
URL: <http://www.pasternack.com/precision-0.056-semirigid-replacement-50-ohm-coax-cable-fep-jacket-pe-p047-p.aspx>

Flexible Version of 047 Semi-rigid Coax Cable Double Shielded with Blue FEP Jacket from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99%

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. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal.

PE-P047 CAD Drawing

Flexible Version of 047 Semi-rigid Coax Cable Double Shielded with Blue FEP Jacket



NOTES:
 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
 3. DIMENSIONS ARE IN INCHES [mm].

DWG TITLE
PE-P047

REV. A

FSCM NO. 53919

CAD FILE 061512

SCALE N/A

SIZE A

2233

PASTERNAK ENTERPRISES, INC.
 P.O. BOX 16759, IRVINE, CA 92623
 PHONE (949) 261-1920 FAX (949) 261-7451
 WEB ADDRESS: www.pasternack.com
 E-MAIL ADDRESS: sales@pasternack.com
COAXIAL & FIBER OPTICS

