

Pulser, QMT-X

QCD Technology

March 2020



Declaration

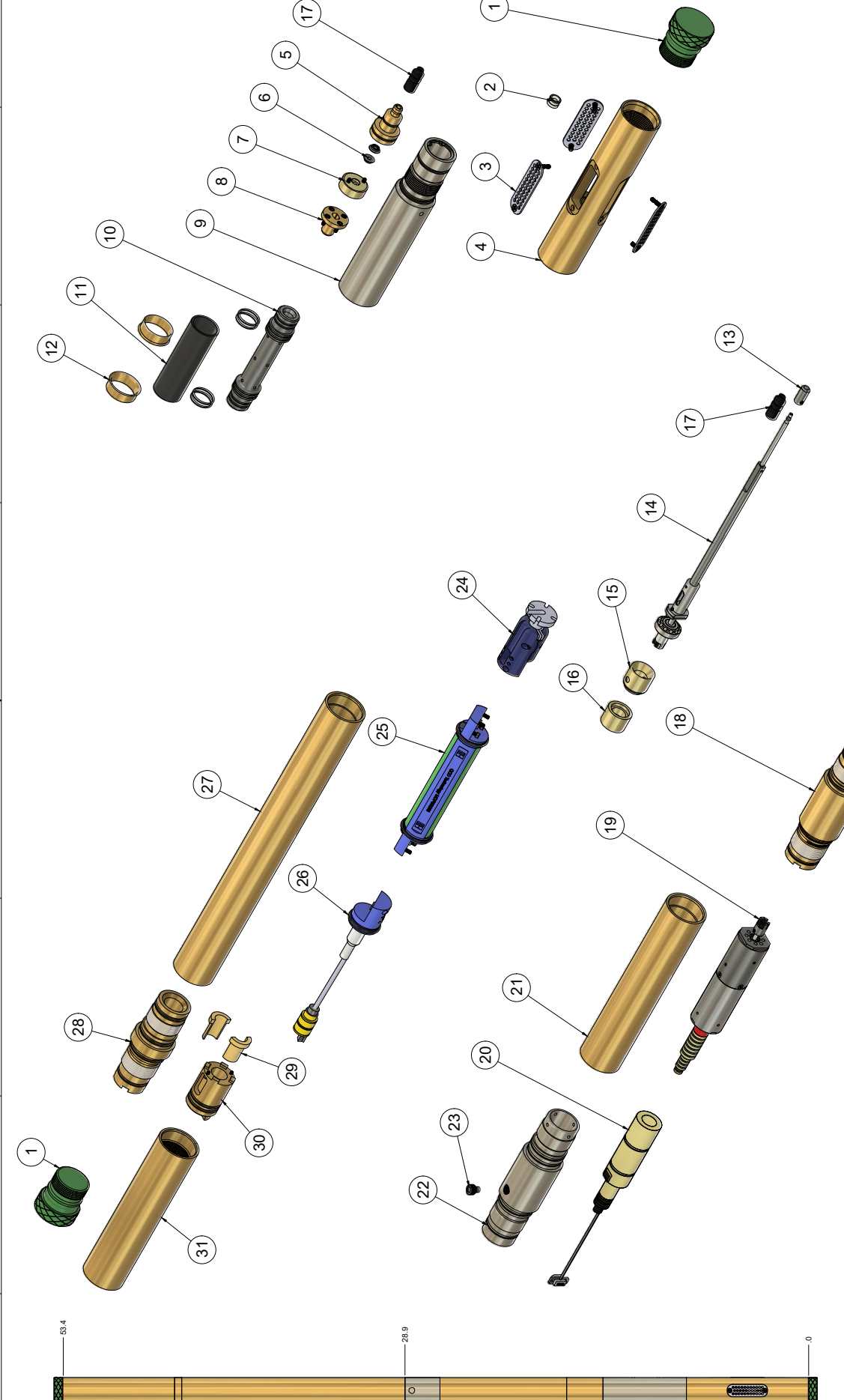
This document provides detailed breakdown of components in a QCD pulser. All information contained in this document is considered to be proprietary. This document is not to be shared or reproduced in any form.

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1 2 3 4 5 6 7 8



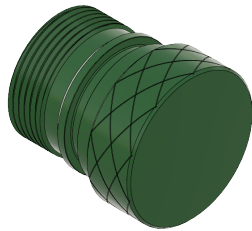
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REV	DESCRIPTION OF CHANGE	APPR	DATE
J	UPDATE FOR MODEL UPDATES, GEOMETRY, VERIFICATION	BRJ	23MAR, 2020
H	ADD NOTES	BRJ	04OCT, 2019
G	ADDING HW NOTES	BRJ	08MAR, 2019
F	REALIGN EXP	BRJ	08MAR, 2019

PROJECT		QCD PULSER, #37 - 5.75mm PULSER ORIGINAL	
TITLE		GMT-X 5.75mm BallScrew Pulser	
DRAWN		Richard Johnson	
CHECKED		H	
APPROVED		H	
SCALE		1:1	
SHEET		1/1	

SIZE	CODE	DWG NO	REV
D		0-37-1-02	H

1.1 Male Thread Protector

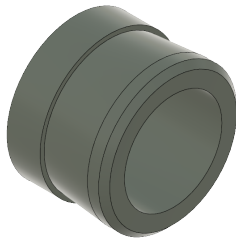


Part Number:
DCPN0049

Description:
Male thread protector

Quantity: 2

1.2 Servo Orifice

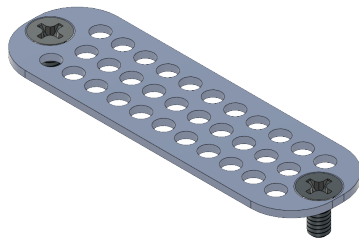


Part Number:
MDPN0042

Description:
Servo orifice

Quantity: 1

1.3 Screen

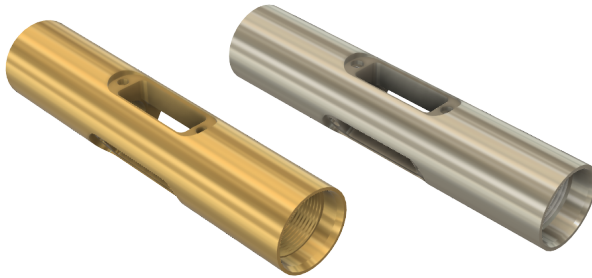


Part Number:
MDPN0035

Description:
Screen filter

Quantity: 3

1.4 Screen Housing



Part Number:

MDPN0103 BeCu

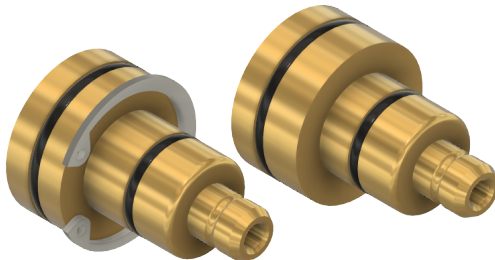
MDPN0112 N50

Description:

Screen Housing

Quantity: 1

1.5 Lower Flexiseal Housing



Part Number:

MDPN0023

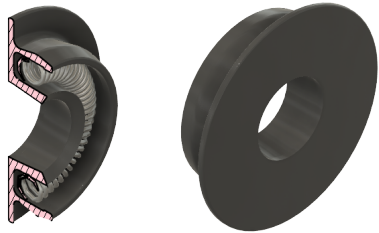
Description:

Lower flexiseal housing

Quantity: 1

Note: Options with or without retaining ring available. Use 2x #6-32, 1/2" Lg

1.6 Flexiseal



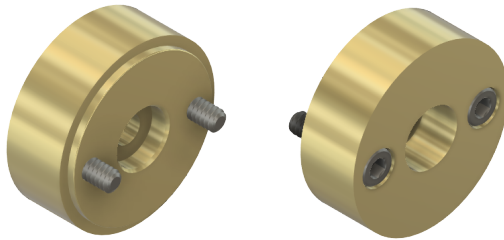
Part Number:
MDPN0096

Description:
Flexi seal

Quantity: 2

Note: Flexiseal optimized for QCD
Flexiseal housings.

1.7 Upper Flexiseal Housing

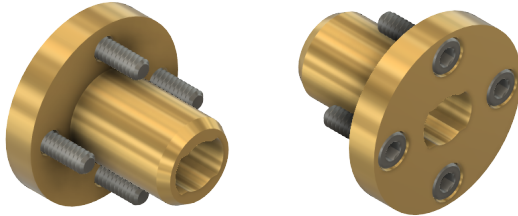


Part Number:
MDPN0024

Description:
Upper flexi seal housing

Quantity: 1

1.8 Spline Nut



Part Number:
MDPN0045

Description:
Spline Nut

Quantity: 1

Note: Use 4x #6-32, 3/8" Lg.

1.9 Compensation Housing



Part Number:
A-MDPN11007 BeCu
MDPN11007 N50

Description:
Compensation Housing

Quantity: 1

1.10 Membrane Support



Part Number:
MDPN0030

Description:
Membrane Support

Quantity: 1

1.11 4" Comp Membrane



Part Number:
A-MDPN11006

Description:
4" comp membrane

Quantity: 1

1.12 Crimp Ring, HD

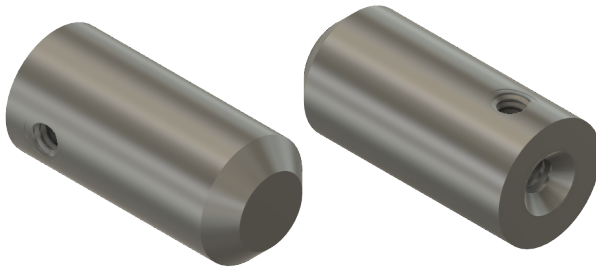


Part Number:
MDPN0033

Description:
Crimp ring, HD

Quantity: 2

1.13 Servo Poppet



Part Number:
MDPN0044

Description:
Servo poppet

Quantity: 1

1.14 Ball Screw Assembly

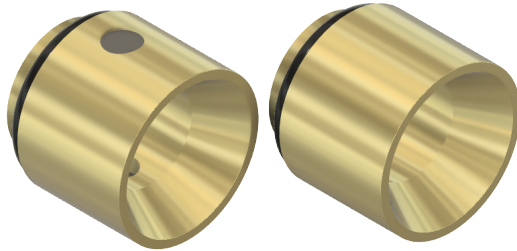


Part Number:
MDPS0003

Description:
Ball Screw Assembly

Quantity: 1

1.15 Compression Collar, Lower



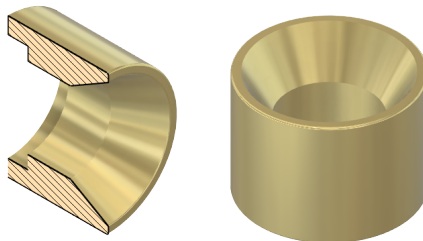
Part Number:
MDPN0027

Description:
Lower compression collar

Quantity: 1

Note: Options with or without magnet available. Use 212 oring, 118 as alternate.

1.16 Compression Collar, Upper

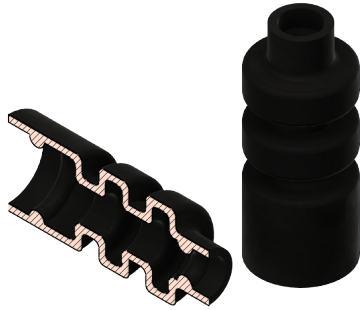


Part Number:
MDPN0026

Description:
Upper compression collar

Quantity: 1

1.17 Bellows

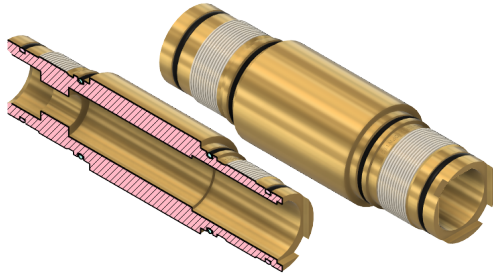


Part Number:
A-MDPN11005

Description:
Bellows

Quantity: 1

1.18 Ball Screw Housing

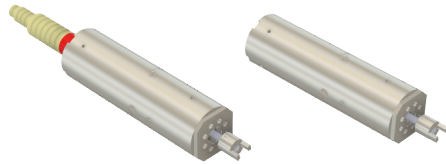


Part Number:
A-MDPN11011 BeCu

Description:
Ball screw housing

Quantity: 1

1.19 Motor Assembly

**Part Number:**

MDPS0099 with rotary

MDPS0097 without rotary

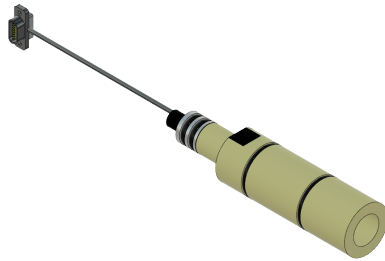
Description:

MotorAssembly, 1.47, TMX

10ch RC Gen 2

Quantity: 1

1.20 Female Rotary Connector

**Part Number:**

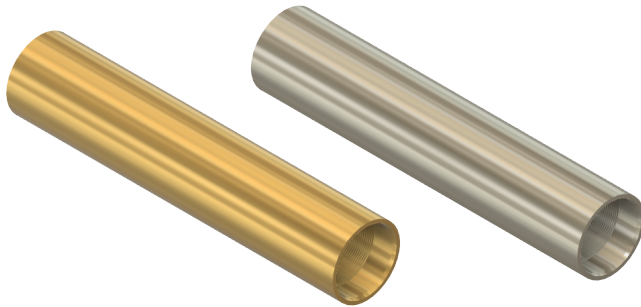
ASCN0042

Description:

Female rotary connector

Quantity: 1

1.21 Motor Sleeve

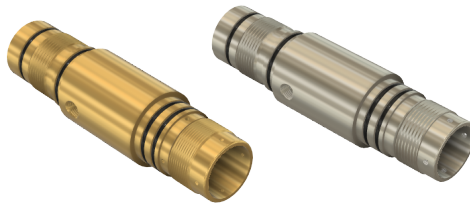


Part Number:
MDPN0038

Description:
Motor sleeve
BeCu or SS options available

Quantity: 1

1.22 Rotary Connector Housing

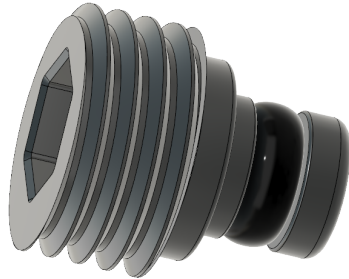


Part Number:
MDPN0104 BeCu
MDPN0111 N50

Description:
Rotary Connector Housing

Quantity: 1

1.23 Oil Fill Plug

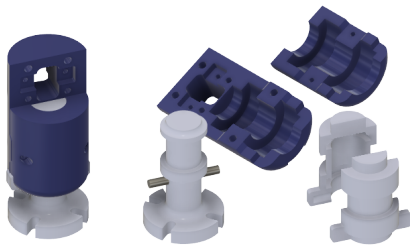


Part Number:
MDPN0039

Description:
Oil fill plug

Quantity: 1

1.24 Snubber Shock, 3 pcs

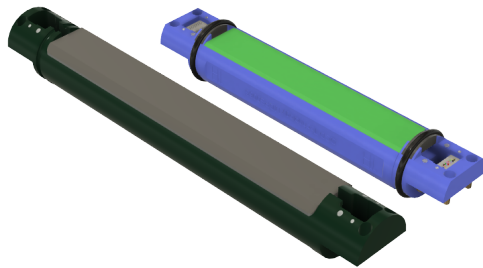


Part Number:
DCPN0041

Description:
3 piece snubber shock

Quantity: 1

1.25 Cap Bank



Part Number:

MDPS0083 Old
MDPS0065 New

Description:

Cap bank

Quantity: 1

Note: Use 2x 216 oring.

1.26 Pigtail



Part Number:

A-MDPN11019

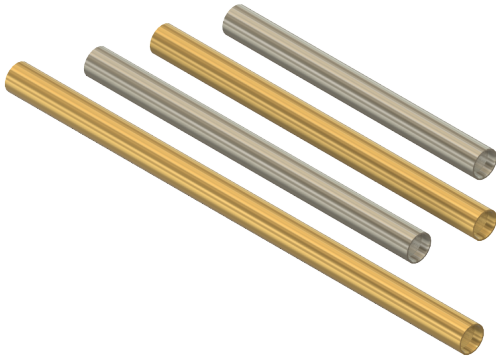
Description:

Pigtail

Quantity: 1

Note: Use 316 oring. Hard to install

1.27 Circuit Sleeve



Part Number:

A-MDPN11026

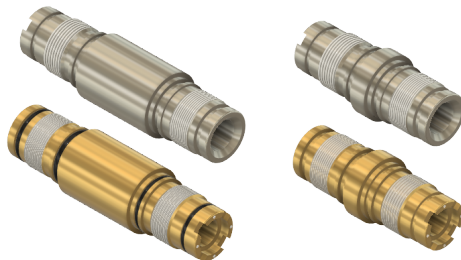
Description:

Circuit Sleeve

Quantity: 1

Note: BeCu or Stainless barrels available. 34.5", 24.5", 19.0", 16.0" or custom lengths as required.

1.28 Interconnect Bulkhead



Part Number:

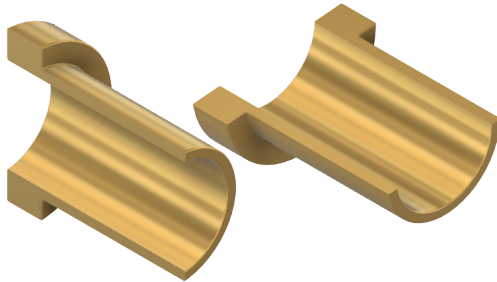
DCPN0017

Description:

Interconnect bulkhead
2.5", 1.5", or 0.5" between
pins available.

Quantity: 1

1.29 Kintec Split Shell

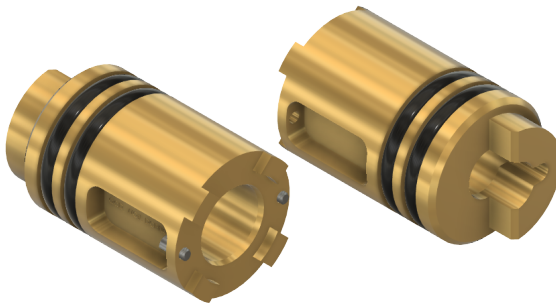


Part Number:
DCPN0047

Description:
Kintec clam shell

Quantity: 2

1.30 Bulkhead 90 Deg



Part Number:
DCPN0009

Description:
New bulkhead, 90 degree

Quantity: 1

Note: Use 2x 217 oring.

1.31 Interconnect Sleeve



Part Number:
DCPN0014

Description:
Interconnect sleeve

Quantity: 1

1.32 Pulser Hardware Package

Seals			Hardware		
Qty	Part No	Desc.	Qty	Part No	Description
1	SLON0006	006	8	STON25643	#2-56 Pan Screw 0.300Lg
2	SLON0016	016	2	STSN44025	#4-40 SHCS 0.250Lg
4	SLON0020	020	8	STSN63237	#6-32 SHCS 0.375Lg
3	SLON0023	023	10	STSN63250	#6-32 SHCS 0.500Lg
2	SLON0112	112	6	STON83237	#8-32 Phillips 3/8"
3	SLON0124	124	3	STSN83218	#8-32 Socket set screw, 3/16"
4	SLON0125	125	4	STSN83237	#8-32 Set Screw 0.125Lg
7	SLON0127	127	1	SNRN0001	Snap ring, OD 1.125 x 0.040
1	SLON0212	212			
1	SLON0218	218			
1	SLON0220	220			