



api 54-874-010 Threaded Miniature Spanner Filters Owner's Manual

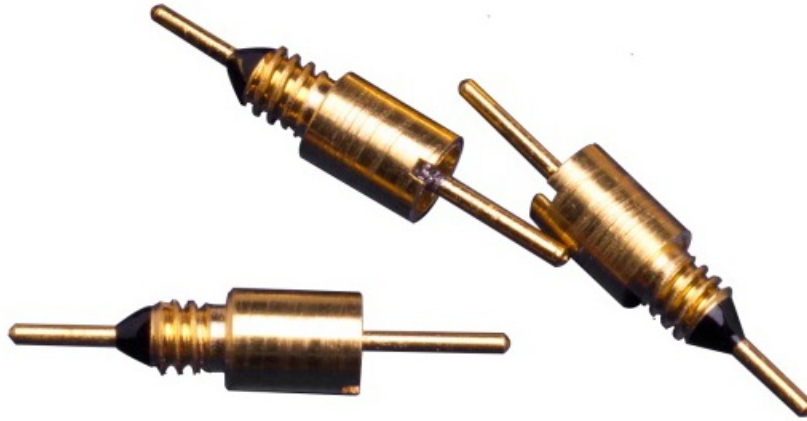
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api 54-874-010 Threaded Miniature Spanner Filters



Specifications

- Dimensions: .020 (0.51)" x .020 (0.51)" x 1-1/2 Imperfect Threads #2-56 Unc-2A
- Insertion Tool Part Number: 54-874-020
- Operating Temperature: 125°C
- Voltage Rating: 50 VDC
- Current Rating: 5 A
- Effective Filtering: Capacitance
- Dielectric Withstanding Voltage: 125 VDC
- Center Spacing: 0.110"
- Lead Finish: Gold
- Bushing Finish: Gold
- Tightening Torque: Not specified

Applications

The Threaded Miniature Spanner Filters are excellent for applications that require many lines to be filtered in close proximity.

Step 1: Installation

1. Ensure that the power source is turned off before installation.
2. Select the appropriate filter based on the desired capacitance value and current rating.
3. Thread the filter onto the lines that need to be filtered.
4. Tighten the filter using an appropriate spanner tool or the provided Insertion Tool (Part Number: 54-874-020) until it is securely in place.

Step 2: Electrical Connection

Once the filters are installed, connect the lines to the appropriate electrical components or devices. Ensure proper polarity and secure connections.

Step 3: Testing

After installation, perform the necessary tests to ensure the filters are functioning correctly. Check for any

abnormal noise or interference reduction.

Step 4: Maintenance

Regularly inspect the filters for any signs of damage or wear. Replace any filters that show signs of deterioration. Keep the filters clean and free from dirt or debris.

FAQ

- **Q: What is the voltage rating of the Threaded Miniature Spanner Filters?**

A: The voltage rating is 50 VDC.

- **Q: What is the maximum current rating for these filters?**

A: The maximum current rating is 5 A.

- **Q: What is the operating temperature range for these filters?**

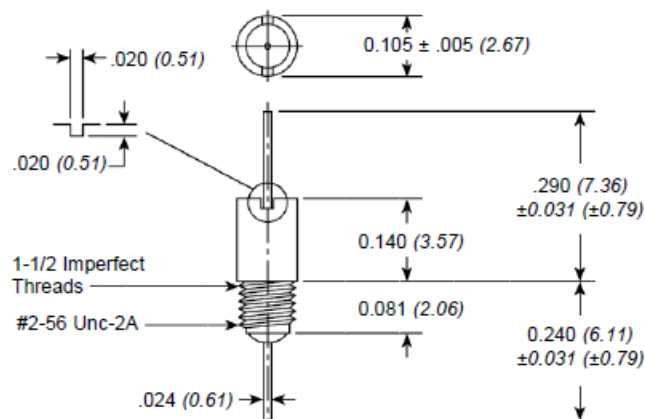
A: The operating temperature range is up to 125°C.

- **Q: How do I select the appropriate filter based on capacitance value?**

A: Refer to the specifications table provided and choose the filter with the desired capacitance value.

Threaded Miniature Spanner Filters

Excellent for applications that require many lines to be filtered in close proximity



Built and tested in accordance with MIL-PRF-15733. Dimensions in inches (mm)

Insertion Tool

- **Part Number:** 54-874-020



Features

- Space saving #2-56 designed without a hex and does not require soldering for installation
- Easy swap that allows for flexibility in filter replacement and capacitance substitution
- Flexibility in filter placement
- Custom designs available

Applications

- Microwave applications
- Frequency synthesizers
- Power amplifiers
- Millimeter wave radios
- Commercial and high-reliability applications

Electrical Specifications

- Operating Temperature: -55°C to +125°C
- Voltage Rating: 50 VDC
- Current Rating : 5 A
- Effective Filtering: 1 MHz to 10 GHz
- Capacitance: to 10,000 pF
- Dielectric Withstanding
- Voltage: 125 VDC

Mechanical Specifications

- Center Spacing: 0.110"
- Lead Finish: Gold
- Bushing Finish: Gold
- Tightening Torque: 14 oz-in (± 2) (0.11Nm)

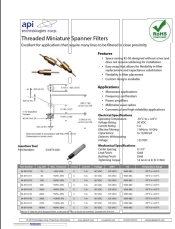
Part Number	Cap (pF)	Max. Tolerance	Circuit	Current	Voltage	DWV	I.R.	Temperature Range
54-874-010	10	+0%/-20%	C	5 A	50 VDC	125 VDC	1000 MΩ	-55°C to +125°C
54-874-011	39	+50%/-20%	C	5 A	50 VDC	125 VDC	1000 MΩ	-55°C to +125°C
54-874-012	100	+50%/-20%	C	5 A	50 VDC	125 VDC	1000 MΩ	-55°C to +125°C
54-874-013	390	+50%/-20%	C	5 A	50 VDC	125 VDC	1000 MΩ	-55°C to +125°C
54-874-014	1000	+50%/-20%	C	5 A	50 VDC	125 VDC	1000 MΩ	-55°C to +125°C
54-874-015	2000	+50%/-20%	C	5 A	50 VDC	125 VDC	1000 MΩ	-55°C to +125°C
54-874-016	3300	+100%/-0%	C	5 A	50 VDC	125 VDC	1000 MΩ	-55°C to +125°C
54-874-017	4700	+100%/-0%	C	5 A	50 VDC	125 VDC	1000 MΩ	-55°C to +125°C
54-874-018	10000	+80%/-20%	C	5 A	50 VDC	125 VDC	1000 MΩ	-55°C to +125°C

*Add an "F" after the 54 to designate RoHS, as the part numbers as shown are not RoHS. Example 54F-874-010

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Documents / Resources

	<p>api 54-874-010 Threaded Miniature Spanner Filters [pdf] Owner's Manual 54-874-010 Threaded Miniature Spanner Filters, 54-874-010, Threaded Miniature Spanner Filters, Miniature Spanner Filters, Spanner Filters, Filters</p>
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References

-  [Spectrum Control - RF Components, EMI filters, RF Assemblies and RF Subsystems to control the electromagnetic spectrum](#)

- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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