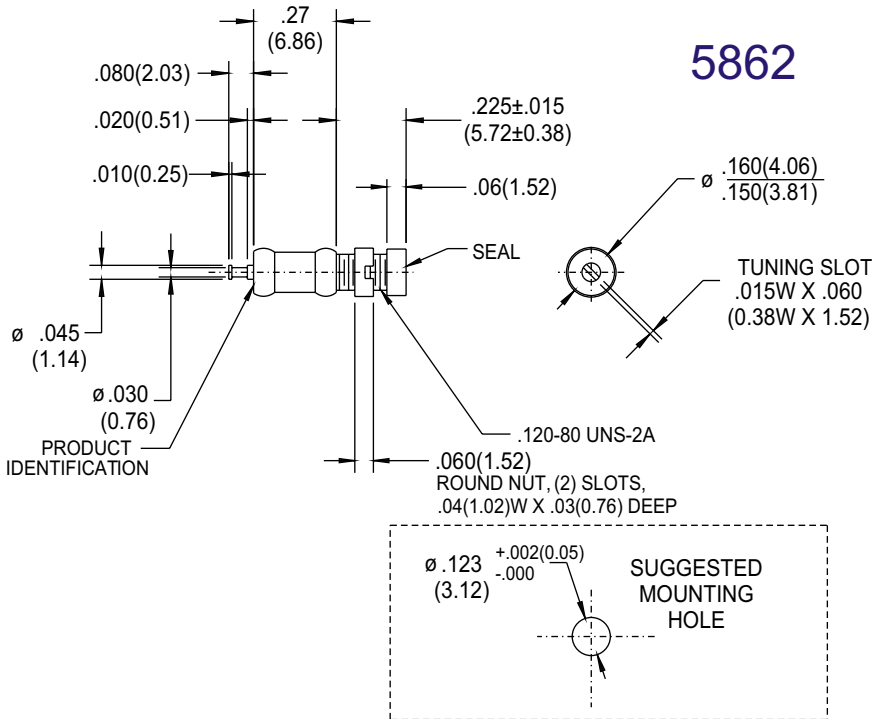


Non-Magnetic Air Capacitor Selection

Johanson P/N	Capacitance Range (pF)	Number Of Turns	Working Voltage (VDC)	Temperature Coefficient (PPM/°C)	Tuning Torque (oz in)	Q min @ 100 MHz
5240	0.8 to 10	>6	250	50 ± 50	1-5	4000
5241						
5242						
5640	1.0 to 30	>20	250	50 ± 50	1-5	800
5641						
5642						
5760	0.6 to 6.0	>7	250	50 ± 50	.4-4	10000
5761						
5762						
5862	0.4 to 3.5	>9	250	50 ± 50	.3-3	10000

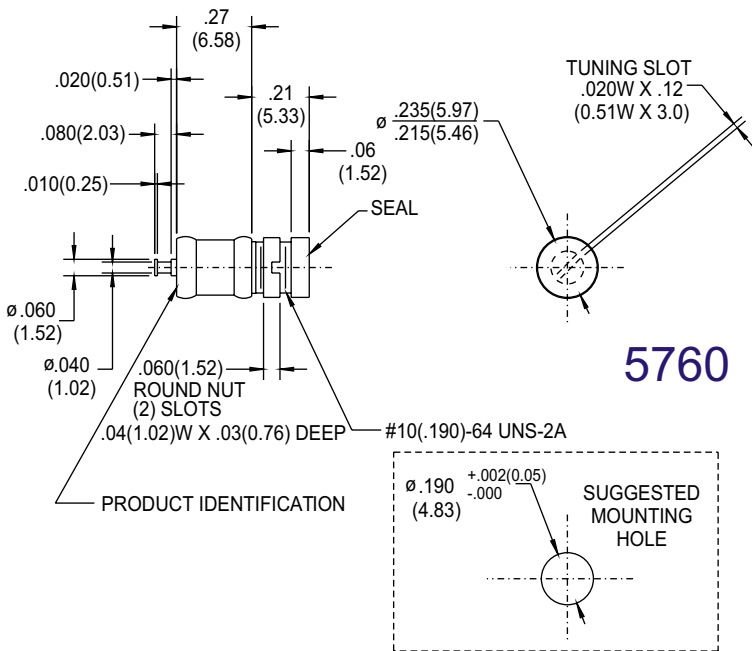
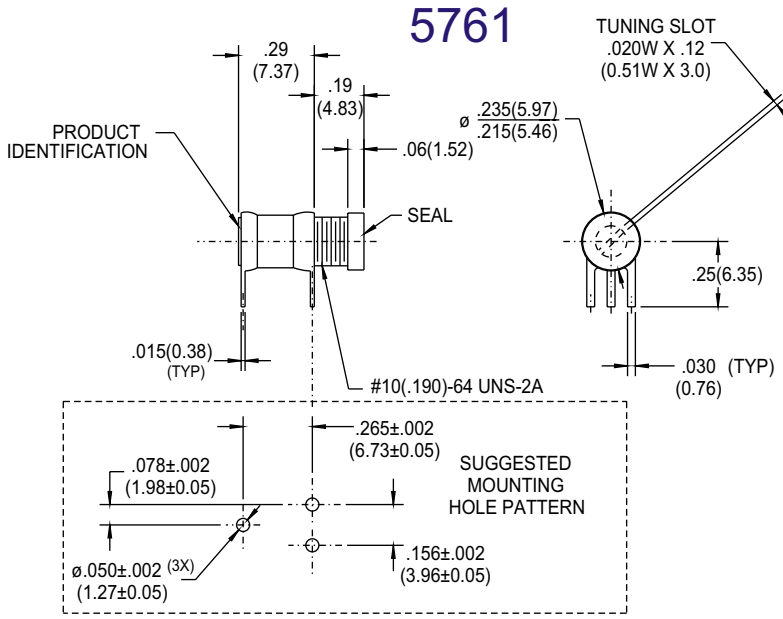
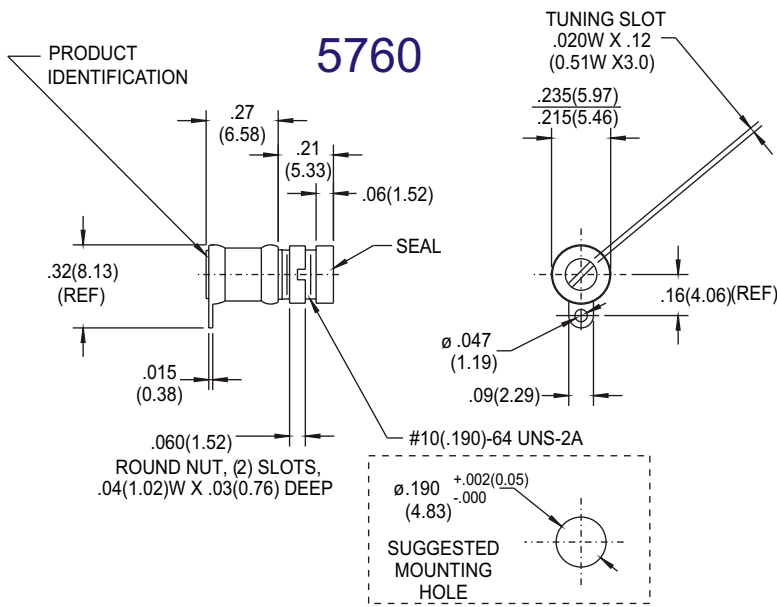
Non-Magnetic Air Capacitor .4 to 3.5pF



SPECIFICATIONS		
CAPACITY RANGE	0.4pF TO 3.5pF (>9 TURNS)	
WORKING VOLTAGE	250 VDC (TEST VOLT. 500 VDC)	
Q @ 100 MHz	> 10000	
INSULATION RESISTANCE	>10 ⁶ MEGOHMS	
TEMPERATURE COEFFICIENT @ 75% MAX. C	50 ± 25 PPM/ °C	
TEMPERATURE RANGE	-65°C TO +125°C	
T O R Q U E	TUNING	0.3 TO 3.0 OZ. IN
	NUT MOUNTING	10 OZ. IN. MAX
	SEAL ASSEMBLY	5 OZ. IN. MAX
NON-MAGNETIC STRUCTURE		
GLAZED ALUMINA INSULATION		
574°F SOLDER USED IN ASSEMBLY		
SILICONE RUBBER SEAL WASHER		
GOLD, SILVER, & CHROMATE FINISH		

Recommended tuning tool **JMC 8764**

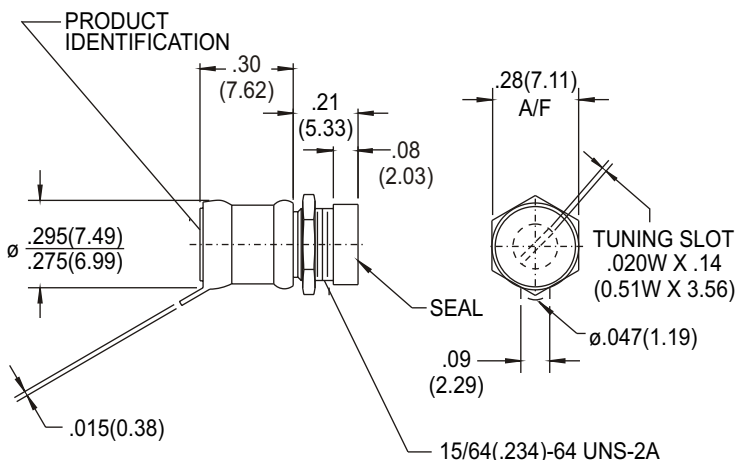
Non-Magnetic Air Capacitor .6 to 6.0pF



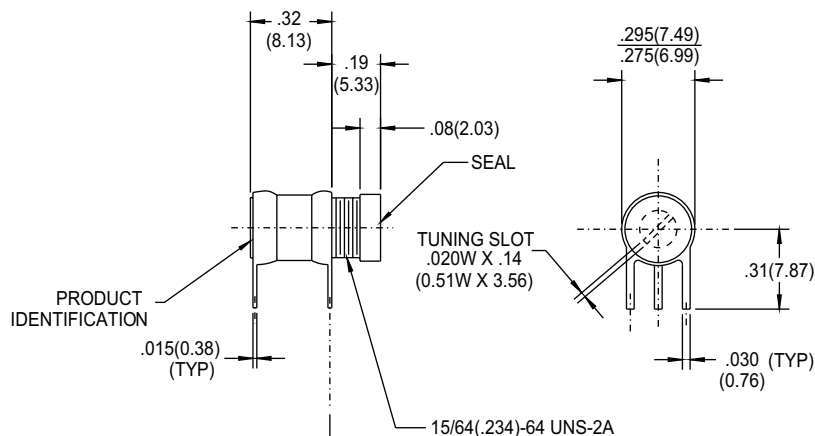
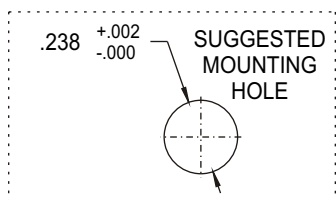
SPECIFICATIONS		
CAPACITY RANGE	0.6pF TO 6pF (>8 TURNS)	
WORKING VOLTAGE	250 VDC (TEST VOLT. 500 VDC)	
Q @ 100 MHz	> 10000	
INSULATION RESISTANCE	>10 ⁶ MEGOHMS	
TEMPERATURE COEFFICIENT @ 75% MAX. C	50 ± 50 PPM/°C	
TEMPERATURE RANGE	-65°C TO +125°C	
T O R Q U E	TUNING	0.4 TO 4.0 OZ. IN
	NUT MOUNTING	30 OZ. IN. MAX
	SEAL ASSEMBLY	8 OZ. IN. MAX
NON-MAGNETIC STRUCTURE		
GLAZED ALUMINA INSULATION		
574°F SOLDER USED IN ASSEMBLY		
SILICONE RUBBER SEAL WASHER		
GOLD, SILVER, & CHROMATE FINISH		

Recommended tuning tool **JMC 8764**

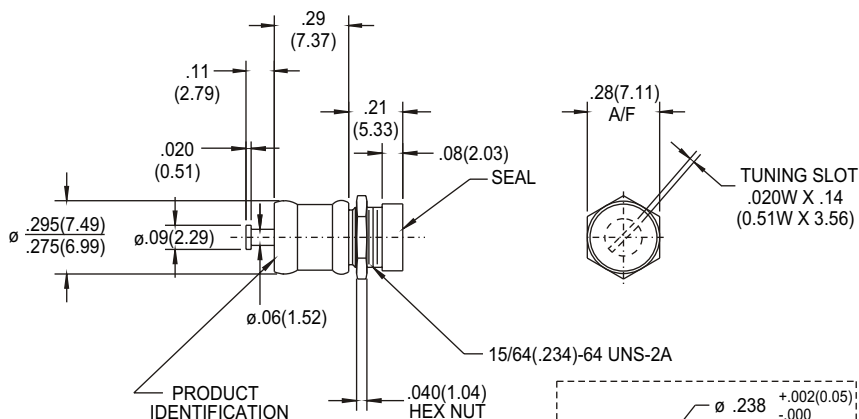
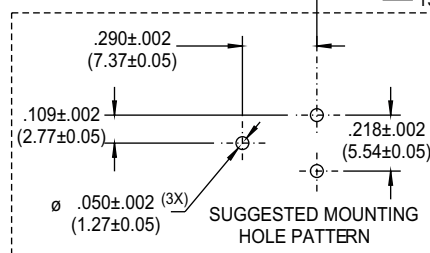
Non-Magnetic Air Capacitor .8 to 10.0pF



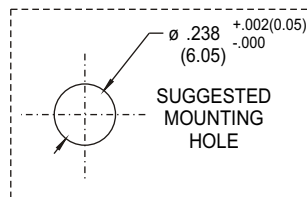
5240



5241



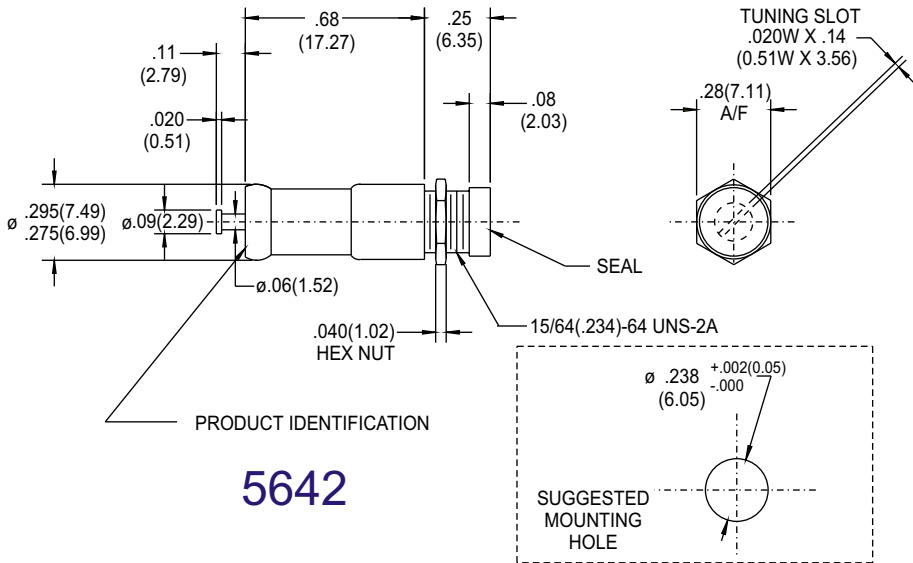
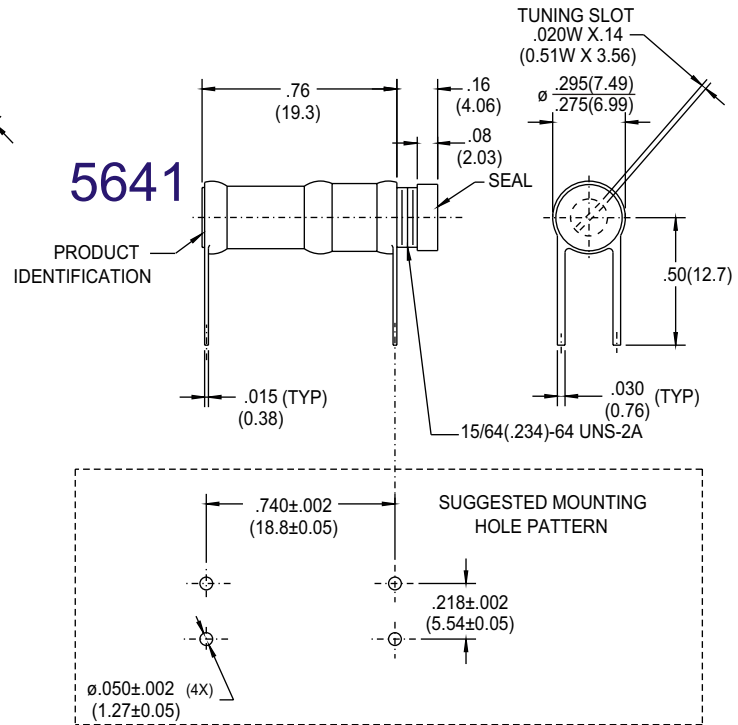
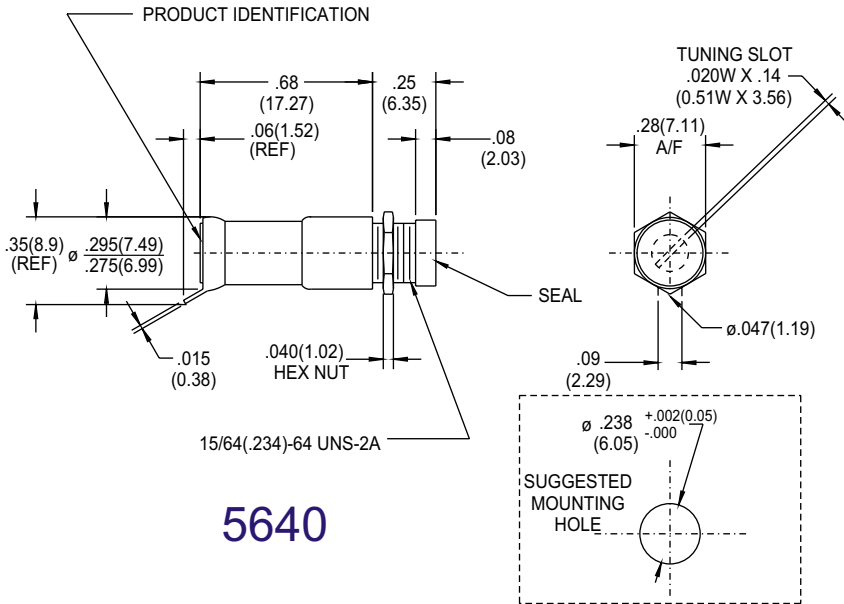
5242



SPECIFICATIONS		
CAPACITY RANGE	0.8pF TO 10pF (>6 TURNS)	
WORKING VOLTAGE	250 VDC (TEST VOLT. 500 VDC)	
Q @ 100 MHz	> 4000	
INSULATION RESISTANCE	>10 ⁶ MEGOHMS	
TEMPERATURE COEFFICIENT @ 75% MAX. C	50 ± 50 PPM/°C	
TEMPERATURE RANGE	-65°C TO +125°C	
T O R Q U E	TUNING	1.0 TO 5.0 OZ. IN
	NUT MOUNTING	50 OZ. IN. MAX
	SEAL ASSEMBLY	8 OZ. IN. MAX
NON-MAGNETIC STRUCTURE		
GLAZED ALUMINA INSULATION		
574°F SOLDER USED IN ASSEMBLY		
SILICONE RUBBER SEAL WASHER		
GOLD, SILVER, & CHROMATE FINISH		

Recommended tuning tool **JMC 8764**

Non-Magnetic Air Capacitor 1.0 to 30pF



SPECIFICATIONS		
CAPACITY RANGE	1.0pF TO 30pF (>20 TURNS)	
WORKING VOLTAGE	250 VDC (TEST VOLT. 500 VDC)	
Q @ 100 MHz	> 800	
INSULATION RESISTANCE	>10 ⁶ MEGOHMS	
TEMPERATURE COEFFICIENT @ 75% MAX. C	50 ± 50 PPM/ °C	
TEMPERATURE RANGE	-65°C TO +125°C	
T O R Q U E	TUNING	1.0 TO 5.0 OZ. IN
	NUT MOUNTING	50 OZ. IN. MAX
	SEAL ASSEMBLY	8 OZ. IN. MAX
NON-MAGNETIC STRUCTURE		
GLAZED ALUMINA INSULATION		
574°F SOLDER USED IN ASSEMBLY		
SILICONE RUBBER SEAL WASHER		
GOLD, SILVER, & CHROMATE FINISH		

Recommended tuning tool **JMC 8764**

Mounting

Chassis Mounting Capacitor: Recommended mounting torques are as follows

<u>Bushing Tread</u>	<u>Torque(oz. in)</u>
.120-80	10
.156-64	20
.190-64	30
.234-64	50
.250-64	90
.312-64	120
.375-64	120
.469-32	240

Thru-Hole Capacitor: Air capacitors with leads for PC board mounting may be lightly clinched after assembly to board, to help retain them.

Soldering

The use of 60-40 solder (SN60-63) is recommended. The use of higher temperature solder is not recommended.

Hand Soldering: Use a temperature controlled 40 watt iron set @ 500°F maximum. The solder joint should be made in 3 seconds or less.

Wave Soldering: Recommended preheat is 1 to 2 minutes. Soldering temperature, 220°C for 5 seconds maximum.

Reflow Soldering: Recommended preheat is 1 to 2 minutes. Soldering temperature, 240°C for 20 seconds maximum.

Cleaning

Air capacitors are compatible with a wide variety of cleaning processes including those that utilize aqueous or semi-aqueous cleaning solutions, alcohol solutions, de-ionized water and numerous other cleaners. However, due to the large variety of such processes, the customer through cleaning process evaluation in conjunction with Johanson product purchased must determine actual compatibility. Capacitors without seal caps should be protected from intrusion of cleaning solutions on the internal bushing thread. It is recommended these units be installed after circuit boards have been cleaned. Units with seal caps may be immersed in liquid, vapor, and ultrasonic cleaning systems.

Adjusting

The plastic seal caps available are designed so that, after assembly is complete they may be penetrated by the Johanson tuning tool and left in place or may be removed and discarded before adjustment.

The tuning torque range is specified for each type of capacitor. The maximum specified value should not be exceeded or damage to the capacitor may result.

Always use the recommended tuning tool. Johanson tuning tools are designed specifically for tuning Johanson products; use of other tools, particularly metal screwdrivers, may damage the internal bushing thread causing rotor binding.