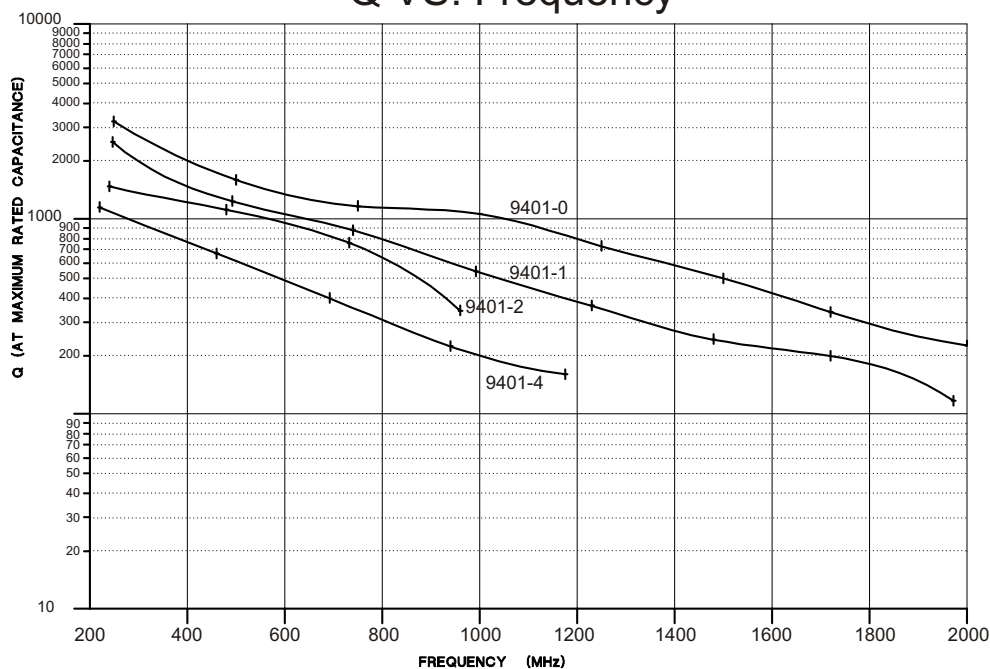
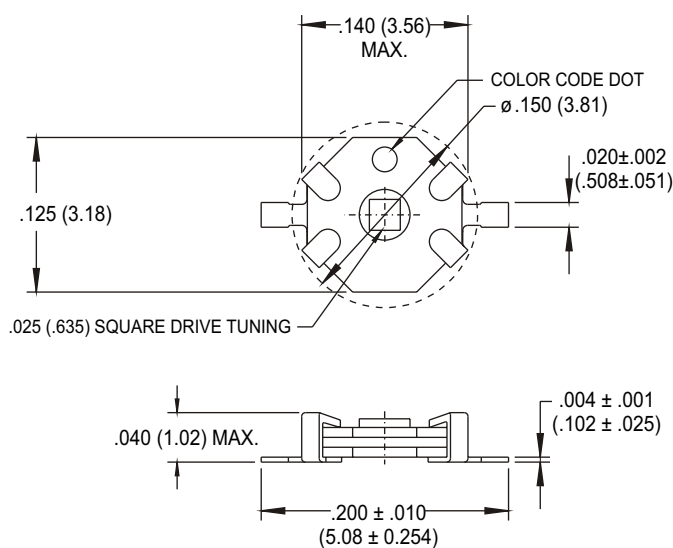


DASH NO.	COLOR CODE	CAPACITY RANGE	TEMPERATURE COEFFICIENT PPM/°C	Q @ 100MHz
9401-0	RED	0.25pF TO 0.7pF	50 ± 50	>1000
9401-1	BLACK	0.5pF TO 1.3pF	NPO ± 100	>1000
9401-2	BLUE	0.6pF TO 2.0pF	-400 ± 200	>1000
9401-4	BROWN	1.5pF TO 4.0pF	-1100 ± 300	>500

### Q VS. Frequency

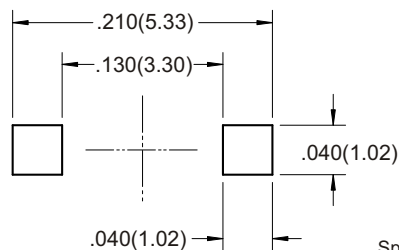


SPECIFICATIONS	
CAPACITY RANGE	SEE TABLE
WORKING VOLTAGE	250 VDC (TEST VOLTAGE 500 VDC)
Q @ 100 Mhz	SEE TABLE
INSULATION RESISTANCE	> 10 <sup>4</sup> MEGOHMS
TEMPERATURE COEFFICIENT	SEE TABLE
TEMPERATURE RANGE	-55°C TO +125°C
TORQUE	0.05 TO 0.5 OZ. IN.
MOISTURE RESISTANCE	MIL-STD-202, METHOD 106
SHOCK	100 g @ 6 ms
VIBRATION	15 g @ 10-2000 Hz
SETTING DRIFT	< 1%
CERAMIC DIELECTRIC STRUCTURE	
GOLD FINISH TERMINALS	



JMC PART NO.	COLOR CODE	CAPACITY RANGE	TEMPERATURE COEFFICIENT PPM/°C	Q @ 100MHz
9401-0SL-1	RED	0.25pF TO 0.7pF	50 ± 50	>1000
9401-1SL-1	BLACK	0.5pF TO 1.3pF	NPO ± 100	>1000
9401-2SL-1	BLUE	0.6pF TO 2.0pF	-400 ± 200	>1000
9401-4SL-1	BROWN	1.5pF TO 4.0pF	-1100 ± 300	>500

Tape and reel available for SL products  
Add suffix to P/N for reel packaging  
R3=1500 pieces, R4=6000 pieces



Dimensions: inches (mm)  
Specifications subject to change without notice

## Mounting

**Chassis Mounting Styles:** 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

**Tuning Rotors:** For best results, we recommend the use of Johanson taps.

<u>Thread Sizes</u>	<u>TAP P/N</u>	<u>Recommended Tap Drill</u>
0(.060)-80 UNF-2	7053	3/64(.0469)
2(.086)-56 UNC-2	7054	#51(.067)
3/32(.094)-80 UNS-2	7064	#45(.082)
.120-80 UNS-2	7060	#36(.1065)
5/32(.156)-64 UNS-2	7059	9/64(.1406)
10(.190)-64 UNS-2	7061	#17(.173)
.200-80 UNS-2	7057	3/16(.1875)
15/64(.234)-64 UNS-2	7062	7/32(.2187)
1/4(.250)-64 UNS-2	7063	15/64(.2344)
3/8(.375)-64 UNS-2	7056	23/64(.3594)

## 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.

## Adjusting

The tuning torque range is specified for each type of tuning elements or rotors. 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.