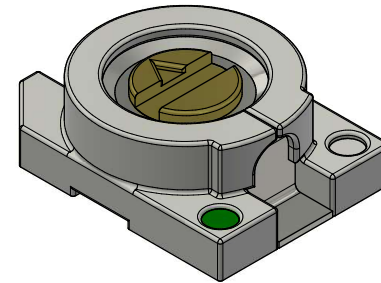


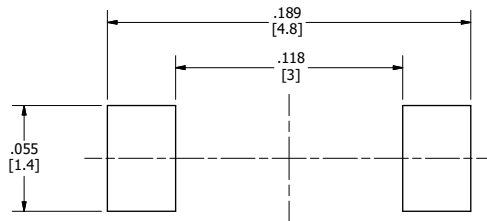
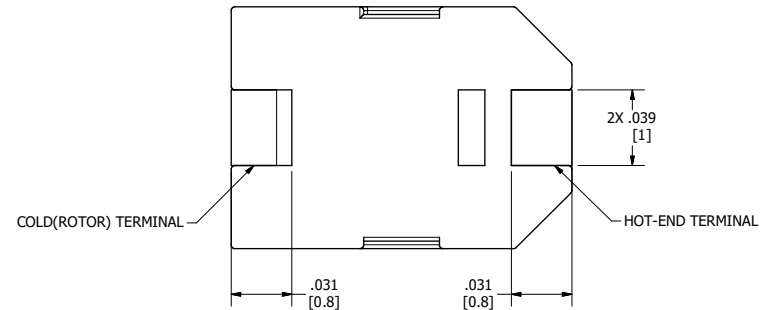
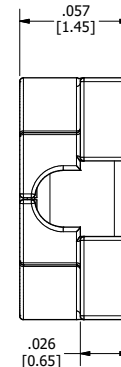
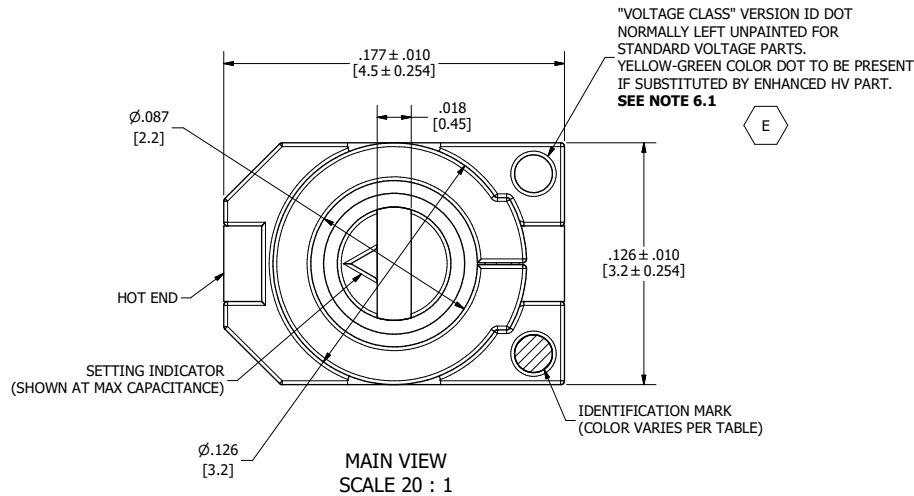
CONFIGURATION TABLE (SEE NOTE 6.1)						
PART NUMBER	C MIN [pF]	C MAX [pF]	TC [PPM/°C]	Q MIN. @ 1 MHz	MARKING COLOR	ALTERNATE COLOR
JZ030	1.5	3.0 +50% / -0%	0 ± 200	500	BLACK	BLACK & GREEN
JZ060	2.0	6.0 +50% / -0%	0 ± 300	500	BLUE	BLUE & GREEN
JZ100	2.0	10.0 +100% / -0%	0 ± 300	500	N/A	N/A
JZ150	3.0	15.0 +100% / -0%	0 ± 500	500	PINK	PINK & GREEN
JZ200	4.5	20.0 +100% / -0%	0 ± 500	500	RED	RED & GREEN
JZ300	5.5	30.0 +100% / -0%	-1500 ± 1000	200	ORANGE	ORANGE & GREEN
JZ400	8.0	40.0 +100% / -0%	-1500 ± 1000	200	YELLOW	GREEN OR YELLOW & GREEN
JZ500	8.0	50.0 +100% / -0%	-1500 ± 1000	200	GREEN	GREEN & GREEN

**NOTES:**

- INTERPRET DRAWING PER ANSI Y14.5M-1994.
- [ALTERNATE DIMENSIONS]** ARE IN MILLIMETERS.
- ELECTRICAL SPECIFICATIONS:
  - CAPACITANCE RANGE: *SEE CONFIGURATION TABLE.*
  - DC WORKING VOLTAGE AT MAX. RATED CAPACITANCE: 125 [VOLTS].
  - DC WITHSTANDING VOLTAGE AT MAX RATED CAPACITANCE: 220 [VOLTS].
  - Q FACTOR AT 1 [MHz] AND MAX RATED CAPACITANCE: *SEE CONFIGURATION TABLE.*
  - INSULATION RESISTANCE: 10<sup>4</sup> [MEGAOHMS] AT 25°C.
  - TEMPERATURE COEFFICIENT: *SEE CONFIGURATION TABLE.*
  - SELF RESONANT FREQUENCY MEASURED AT MAX RATED CAPACITANCE
- MECHANICAL SPECIFICATIONS:
  - TUNING TORQUE: 0.14 [in·oz] TO 1.00 [in·oz].
  - ALL PARTS FURNISHED ON 12 [mm] TAPE AND REEL; 1000 PIECES PER REEL.
- ENVIRONMENTAL:
  - OPERATING TEMPERATURE: -40°C TO +85°C.
  - RoHS COMPLAINT.
- MISCELLANEOUS:
  - IN ORDER TO PROVIDE THE HIGHEST LEVELS OF SERVICE, KNOWLES RESERVES THE RIGHT TO SUPPLY EQUIVALENT PRODUCTS WHERE SPECIFICATIONS ARE EQUIVALENT OR ENHANCED. THIS INCLUDES SUBSTITUTION OF JZ500 TO JZ400 AND HV SUFFIX FOR STANDARDS PARTS.



ISO VIEW  
SCALE 20 : 1



MATERIAL	N/A	DRAWN	E. CONTRERAS	11/26/2013	 <b>Knowles Voltronics</b> 2777 Route 20 East Cazenovia, New York 13035				
FINISH	N/A	CHECKED	T. BYRNE	12/10/2014					
TOLERANCES	XX ± XXX ±.008 XXXX ± X°±1° X.X°±0.1°	QUALITY ASSURANCE	G. SATTERFIELD	12/12/2014					
		MANUFACTURING	F. KHALIFEH	12/1/2014					
3RD ANGLE PROJECTION		ENGINEERING	T. DOLAN	12/4/2014					
		CUSTOMER PART NUMBER							
INVENTOR 2013 GENERATED DWG					SCALE	PER VIEW	DWG NO.	V-7531	SHEET 1 OF 2

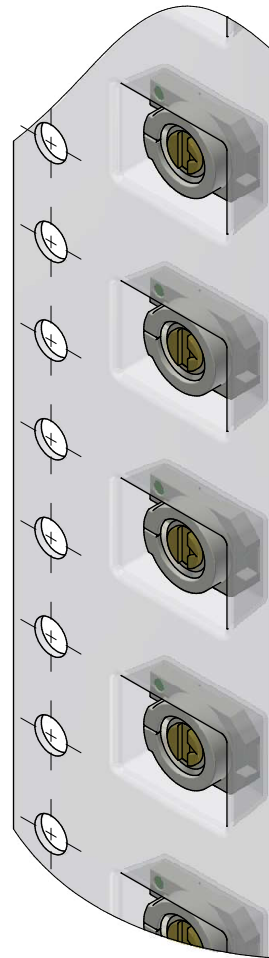
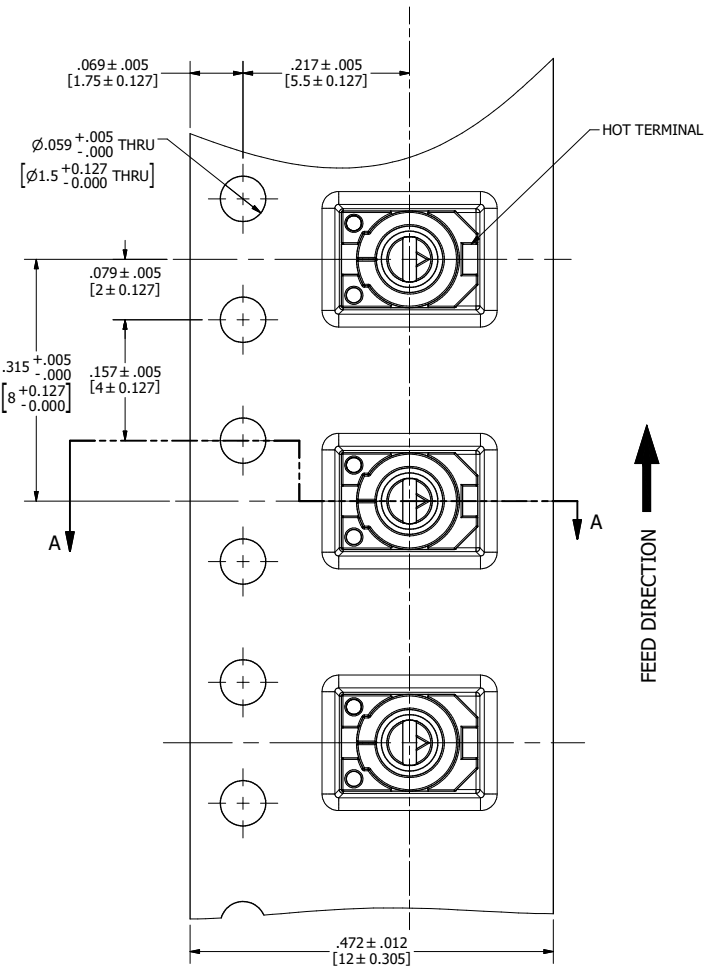
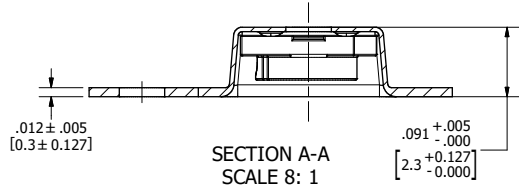
SIZE	CAGE CODE	PART NUMBER	REV
C	55153	JZxxx	G

4

3

2

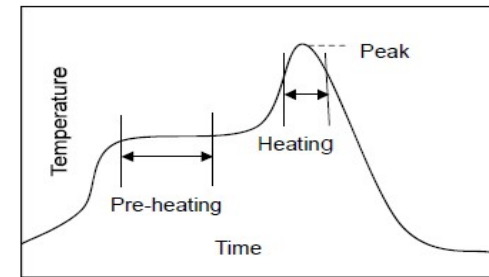
1



### HANDLING/STORAGE PRECAUTIONS:

- i.- DO NOT USE FLOW SOLDERING.
- ii.- DO NOT APPLY SOLDER OR FLUX TO ANY PARTS BUT TERMINAL
- iii.- WHEN USING SOLDERING IRON, THE SOLDERING IRON SHOULD NOT COME IN CONTACT WITH THE HOUSING OF THE CAPACITOR.
- iv.- PLEASE REFER TO SOLDER RECOMMENDATIONS CHART.
- v.- NO-CLEAN METHOD IS PREFERRED OVER SOLVENT WASHING. EXPERIMENT WITH SAMPLES BEFORE WASHING BY SOLVENTS.
- v.- DO NOT APPLY LOCKING SPRAY OR PAINT TO TRIMMER. ELECTRIC SPECIFICATIONS MAY BE AFFECTED ADVERSELY.
- vi.- PRODUCT CONTAINS LUBRICATION OIL. LUBRICATION LEAKS WILL NOT AFFECT PRODUCT SOLDERABILITY.
- vii.- USE OF CERAMIC SCREWDRIVERS IS RECOMMENDED FOR TUNING.
- viii.- DO NOT APPLY AXIAL LOAD DURING TUNING IN EXCESS OF 0.3[lbf]/1.5[N].
- ix.- KEEP PARTS OUT OF DIRECT SUNLIGHT EXPOSURE. STORE PARTS IN DUST-FREE ENVIRONMENT.

### SOLDERING RECOMMENDATIONS



#### STANDARD LEAD-FREE SOLDERING PROFILE

STAGE	SAC305 SOLDER	EUTECTIC SOLDER
PRE-HEATING	TEMPERATURE: 150[°C] - 180[°C] TIME: 60 - 120 SECONDS	TEMPERATURE: 120[°C] - 150[°C] TIME: 60 - 120 SECONDS
HEATING	TEMPERATURE: 220[°C] MIN. TIME: 30 - 60 SECONDS	TEMPERATURE: 183[°C] MIN. TIME: 30 - 60 SECONDS
PEAK HEAT	TEMPERATURE: 265[°C] TIME: 3 SECONDS MAX	TEMPERATURE: 265[°C] TIME: 3 SECONDS MAX
REFLOW CYCLES	2 TIMES MAX	2 TIMES MAX
SOLDERING IRON		
SPEC	TEMPERATURE 400[°C] MAX TIME: 3 SECONDS MAX	

		VOLTRONICS		
		THE TRIMMER CAPACITOR COMPANY 2250 NORTHWOOD DRIVE SALISBURY, MARYLAND 21801		
DL1 • Novacap • Syfer • Voltronics	SIZE	CAGE CODE	PART NUMBER	REV
	C	55153	JZxxx	G
SCALE	PER VIEW	DWG NO.	V-7531	SHEET 2 OF 2