

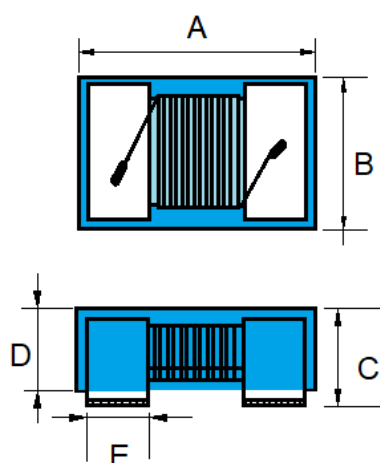
# High Frequency Winding Type Chip Inductor SWIU0805V-SERIES

## 1. Features

1. Ceramic core wire wound construction.
2. No batch to batch variations in inductance
3. High Reliability due to ceramic wire wound construction.
4. High frequency application.
5. Small footprint as well as low profile.
6. 100% Lead(Pb) & Halogen-Free and RoHS compliant.
7. Operating temperature -55~+125°C (Including self - temperature rise)
8. High reliability -Reliability tests comply with AEC-Q200



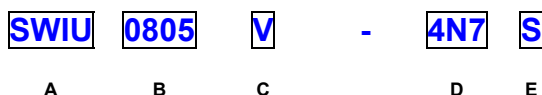
## 2. Dimensions



Size	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
SWIU0805	2.40 max.	1.60 max.	1.40 max.	0.95 ref.	0.44±0.10

Unit:mm

## 3. Part Numbering



- A: Series  
 B: Dimension LxW  
 C: Category Code V=Vehicle  
 D: Inductance 4N7=4.7nH  
 E: Inductance Tolerance C=±0.2nH, S=±0.3nH, G=±2%, J=±5%, K=±10%

## 4. Specification

Part Number	Inductance (nH)	Tolerance	Test Frequency (Hz)	Q min.	Test Frequency (MHz)	Rated Current (mA) max.	DCR (Ω) max.	SRF (MHz) min.
SWIU0805V-4N7□	4.7	C,S	0.1V/250M	70	1500	800	0.04	5750
SWIU0805V-6N8□	6.8	J,K	0.1V/250M	70	1500	800	0.06	5500
SWIU0805V-8N2□	8.2	J,K	0.1V/250M	70	1000	800	0.06	4700
SWIU0805V-10N□	10	G,J,K	0.1V/250M	70	1000	600	0.08	4200
SWIU0805V-12N□	12	G,J,K	0.1V/250M	80	1000	600	0.08	4000
SWIU0805V-15N□	15	G,J,K	0.1V/250M	80	1000	600	0.10	3400

Part Number	Inductance (nH)	Tolerance	Test Frequency (Hz)	Q min.	Test Frequency (MHz)	Rated Current (mA) max.	DCR ( $\Omega$ ) max.	SRF (MHz) min.
SWIU0805V-18N□	18	G,J,K	0.1V/250M	80	1000	600	0.10	3300
SWIU0805V-22N□	22	G,J,K	0.1V/250M	60	500	600	0.12	2600
SWIU0805V-33N□	33	G,J,K	0.1V/250M	60	500	600	0.13	2050
SWIU0805V-39N□	39	G,J,K	0.1V/250M	65	500	600	0.15	2000
SWIU0805V-47N□	47	G,J,K	0.1V/200M	65	500	600	0.17	1650
SWIU0805V-56N□	56	G,J,K	0.1V/200M	65	500	600	0.19	1550
SWIU0805V-68N□	68	G,J,K	0.1V/200M	60	500	500	0.22	1450
SWIU0805V-82N□	82	G,J,K	0.1V/150M	55	500	400	0.40	1300
SWIU0805V-R10□	100	G,J,K	0.1V/150M	55	500	400	0.52	1200
SWIU0805V-R12□	120	G,J,K	0.1V/150M	50	250	400	0.55	1100
SWIU0805V-R15□	150	G,J,K	0.1V/150M	50	250	400	0.73	920
SWIU0805V-R18□	180	G,J,K	0.1V/100M	50	250	400	0.88	870
SWIU0805V-R22□	220	G,J,K	0.1V/100M	50	250	340	1.18	850
SWIU0805V-R33□	330	G,J,K	0.1V/100M	40	250	300	1.40	600
SWIU0805V-R39□	390	G,J,K	0.1V/100M	25	250	290	1.50	560
SWIU0805V-R47□	470	J,K	0.1V/50M	25	100	250	1.76	375
SWIU0805V-R56□	560	J,K	0.1V/25M	23	100	210	1.90	340
SWIU0805V-R68□	680	J,K	0.1V/25M	23	100	200	2.15	200
SWIU0805V-R82□	820	J,K	0.1V/25M	20	100	170	2.50	200
SWIU0805V-1R0□	1000	J,K	0.1V/25M	15	50	170	2.60	100