

# EPCOS SIMID Series SMD Inductors

RoHS Compliant This product is RoHS compliant.

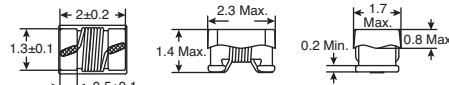


## SIMID 0805-F SERIES

- Features:**
- Close inductance tolerance
  - High resonance frequency
  - Suitable for reflow (IR and vapor phase) and wave soldering

- Construction:**
- Cubic coil with ceramic or ferrite core
  - Epoxy moulded flat top for vacuum pickup
  - Wire welded to terminations

- Applications:**
- Antenna amplifiers
  - DECT systems
  - Mobile phones
  - Keyless entry
  - GPS



DIMENSIONS: mm

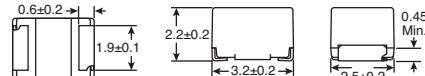
MOUSER STOCK NO.	Epcos Part No.	Case Size	Core Material	Value (nH)	Q (Min)	F <sub>L</sub> :F <sub>Q</sub> (MHz)	I <sub>R</sub> (mA)	R (Ω Max)	F <sub>RES</sub> (MHz Min)	Price Each				Reel Qty.	Price Per Piece
										1	50	100	500		
871-B82498F3100J	B82498F3100J	0805	Ceramic	10	50	250	700	0.09	5000	.68	.606	.568	.378	3000	.25
871-B82498F3220J	B82498F3220J	0805	Ceramic	22	60	250	700	0.08	2500	.68	.606	.568	.378	3000	.25
871-B82498F3330J	B82498F3330J	0805	Ceramic	33	65	250	600	0.11	2200	.68	.606	.568	.378	3000	.25
871-B82498F3680J	B82498F3680J	0805	Ceramic	68	60	200	500	0.18	1600	.68	.606	.568	.378	3000	.25
871-B82498F3101J	B82498F3101J	0805	Ceramic	100	55	150	450	0.28	1350	.68	.606	.568	.378	3000	.25
871-B82498F3221J	B82498F3221J	0805	Ceramic	220	45	100	320	0.7	950	.68	.606	.568	.378	3000	.25
871-B82498F3471J	B82498F3471J	0805	Ceramic	470	30	50	190	1.9	650	.68	.606	.568	.378	3000	.25

## SIMID 1210-H SERIES

- Features:**
- Very high current handling capability
  - Qualified acc. AEC-Q200
  - Suitable for reflow soldering acc. JEDEC J-STSD 020C

- Construction:**
- Ferrite drum core
  - Laser-welded winding
  - Flame-retardant encapsulation

- Applications:**
- Filtering of supply voltages, coupling, decoupling
  - DC/DC converters, switch mode power supplies
  - Automotive electronics
  - Telecommunications



DIMENSIONS: mm

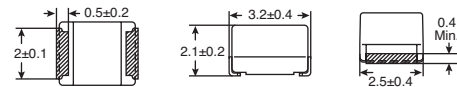
MOUSER STOCK NO.	Epcos Part No.	Case Size	Core Material	Value (μH)	Q (Min)	F <sub>L</sub> :F <sub>Q</sub> (MHz)	I <sub>R</sub> (mA)	R (Ω Max)	F <sub>RES</sub> (MHz Min)	Price Each				Reel Qty.	Price Per Piece
										1	50	100	500		
871-B82422H1102K	B82422H1102K	1210	Ferrite	1	8	7.96	1150	0.1	150	.65	.58	.543	.363	2000	.254
871-B82422H1222K	B82422H1222K	1210	Ferrite	2.2	8	7.96	800	0.16	90	.65	.58	.543	.363	2000	.254
871-B82422H1472K	B82422H1472K	1210	Ferrite	4.7	8	7.96	700	0.25	46	.65	.58	.543	.363	2000	.254
871-B82422H1103K	B82422H1103K	1210	Ferrite	10	12	2.52	500	0.46	30	.65	.58	.543	.363	2000	.254
871-B82422H1223K	B82422H1223K	1210	Ferrite	22	12	2.52	330	1.0	21	.65	.58	.543	.363	2000	.254
871-B82422H1473K	B82422H1473K	1210	Ferrite	47	15	2.52	230	2.1	12	.65	.58	.543	.363	2000	.254
871-B82422H1104K	B82422H1104K	1210	Ferrite	100	20	0.796	150	4.8	8	.65	.58	.543	.363	2000	.254
871-B82422H1224K	B82422H1224K	1210	Ferrite	220	20	0.796	100	10.9	5.5	.65	.58	.543	.363	2000	.254
871-B82422H1474K	B82422H1474K	1210	Ferrite	470	20	0.796	76	20.0	3.5	.65	.58	.543	.363	2000	.254

## SIMID 1210-T SERIES

- Features:**
- High Q factor and L value
  - High resonance frequency
  - Suitable for reflow (IR and vapor phase) and wave soldering

- Construction:**
- Ceramic or ferrite core
  - Laser-welded winding
  - Flame-retardant encapsulation

- Applications:**
- Filtering of supply voltages, coupling, decoupling
  - Antenna systems
  - Automotive electronics
  - Telecommunications



DIMENSIONS: mm

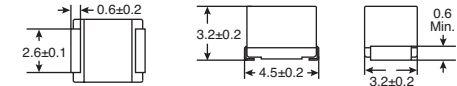
MOUSER STOCK NO.	Epcos Part No.	Case Size	Core Material	Value (μH)	Q (Min)	F <sub>L</sub> :F <sub>Q</sub> (MHz)	I <sub>R</sub> (mA)	R (Ω Max)	F <sub>RES</sub> (MHz Min)	Price Each				Reel Qty.	Price Per Piece
										1	50	100	500		
871-B82422T3101K	B82422T3101K	1210	Ceramic	0.1	28	100	450	0.31	900	.42	.375	.352	.234	2000	.163
871-B82422T1221K	B82422T1221K	1210	Ferrite	0.22	30	25.2	450	0.2	500	.22	.176	.16	.146	2000	.127
871-B82422T1471K	B82422T1471K	1210	Ferrite	0.42	30	25.2	450	0.3	400	.22	.176	.16	.146	2000	.125
871-B82422T1102K	B82422T1102K	1210	Ferrite	1	30	7.96	400	0.6	300	.42	.375	.352	.234	2000	.163
871-B82422T1222K	B82422T1222K	1210	Ferrite	2.2	30	7.96	320	0.8	100	.42	.375	.352	.234	2000	.163
871-B82422T1472K	B82422T1472K	1210	Ferrite	4.7	30	7.96	220	1.5	50	.42	.375	.352	.234	2000	.163
871-B82422T1103K	B82422T1103K	1210	Ferrite	10	27	2.52	150	2.1	30	.42	.375	.352	.234	2000	.163
871-B82422T1333K	B82422T1333K	1210	Ferrite	33	27	2.52	70	5.6	17	.42	.375	.352	.234	2000	.163
871-B82422T1473K	B82422T1473K	1210	Ferrite	47	27	2.52	60	7	15	.42	.375	.352	.234	2000	.163
871-B82422T1104K	B82422T1104K	1210	Ferrite	100	20	0.796	60	11	8	.42	.375	.352	.234	2000	.163
871-B82422T1224K	B82422T1224K	1210	Ferrite	220	20	0.796	45	22	6	.42	.375	.352	.234	2000	.163

## SIMID 1812-T SERIES

- Features:**
- High current handling capability
  - Same measuring frequency for L and Q
  - Suitable for reflow (IR and vapor phase) and wave soldering

- Construction:**
- Upright ferrite drum core
  - Laser-welded winding
  - Flame-retardant encapsulation

- Applications:**
- Filtering of supply voltages, coupling, decoupling
  - DC/DC converters
  - Automotive electronics
  - Telecommunications



DIMENSIONS: mm

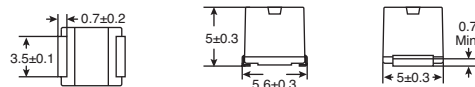
MOUSER STOCK NO.	Epcos Part No.	Case Size	Core Material	Value (μH)	Q (Min)	F <sub>L</sub> :F <sub>Q</sub> (MHz)	I <sub>R</sub> (mA)	R (Ω Max)	F <sub>RES</sub> (MHz Min)	Price Each				Reel Qty.	Price Per Piece
										1	50	100	500		
871-B82432T1102K	B82432T1102K	1812	Ferrite	1	10	7.96	1300	0.08	110	.96	.87	.773	.725	2500	.338
871-B82432T1222K	B82432T1222K	1812	Ferrite	2.2	10	7.96	1000	0.15	60	.97	.869	.772	.725	2500	.338
871-B82432T1103K	B82432T1103K	1812	Ferrite	10	10	2.52	650	0.35	25	.96	.87	.773	.725	2500	.338
871-B82432T1223K	B82432T1223K	1812	Ferrite	22	10	2.52	450	0.7	15	.96	.87	.773	.725	2500	.338
871-B82432T1473K	B82432T1473K	1812	Ferrite	47	10	2.52	350	1.35	11	.96	.87	.773	.725	2500	.338
871-B82432T1104K	B82432T1104K	1812	Ferrite	100	20	0.796	200	3.5	6.5	.96	.87	.773	.725	2500	.338
871-B82432T1224K	B82432T1224K	1812	Ferrite	220	20	0.796	130	7.5	4.5	.96	.87	.773	.725	2500	.338
871-B82432T1105K	B82432T1105K	1812	Ferrite	1000	20	0.252	70	30	2.3	.96	.87	.773	.725	2500	.338

## SIMID 2220-A SERIES

- Features:**
- High current handling capability
  - High inductance ratings
  - Suitable for reflow (IR and vapor phase) and wave soldering

- Construction:**
- Upright ferrite drum core
  - Laser-welded winding
  - Flame-retardant encapsulation

- Applications:**
- Filtering of supply voltages, coupling, decoupling
  - DC/DC converters
  - Automotive electronics
  - Telecommunications



DIMENSIONS: mm

MOUSER STOCK NO.	Epcos Part No.	Case Size	Core Material	Value (μH)	Q (Min)	F <sub>L</sub> :F <sub>Q</sub> (MHz)	I <sub>R</sub> (mA)	R (Ω Max)	F <sub>RES</sub> (MHz Min)	Price Each				Reel Qty.	Price Per Piece
										1	50	100	500		
871-B82442A1102K	B82442A1102K	2220	Ferrite	1	10	7.96	1800	0.024	95	1.11	1.03	.982	.921	1500	.429
871-B82442A1472K	B82442A1472K	2220	Ferrite	4.7	10	7.96	950	0.088	29	1.14	1.11	1.03	.962	1500	.449
871-B82442A1103K	B82442A1103K	2220	Ferrite	10	10	2.52	690	0.168	19	1.11	1.03	.982	.921	1500	.429
871-B82442A1223K	B82442A1223K	2220	Ferrite	22	10	2.52	480	0.35	13	1.14	1.08	1.03	.962	1500	.449
871-B82442A1473K	B82442A1473K	2220	Ferrite	47	10	2.52	340	0.68	8.5	1.14	1.08	1.03	.962	1500	.449
871-B82442A1104K	B82442A1104K	2220	Ferrite	100	20	0.796	250	1.28	6	1.11	1.03	.982	.921	1500	.429
871-B82442A1224K	B82442A1224K	2220	Ferrite	220	20	0.796	170	2.72	3.9	1.14	1.08	1.03	.962	1500	.449
871-B82442A1105K	B82442A1105K	2220	Ferrite	1000	30	0.252	85	12	1.8	1.11	1.03	.982	.921	1500	.429