Cautions and Warnings

Please be noted that this spec is only for reference if you have projects designed with the product number listed in. If you are looking for new project design-in, please find BWQV Series specification/datasheet on Chilisin website. Or you may find our sales contact for more information on old part number at your convenience. Appreciated your attention and understanding.

NOT FOR NEW DESIGN

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SQV Series



SQV Series comes in 2 sizes with wide inductance range, high Q value at high frequencies and low DC resistance.

Features

- RoHS compliant
- Miniature chip inductors wound on a special ferrite core
- High Q value at high frequencies and low DC resistance
- Wide inductance range
- Excellent solder heat resistance
- Both flow and reflow soldering methods can be employed

Applications

- Personal, cordless phone
- High Freq. communication products
- GPS (global position system)
- Personal computers

Product Identification

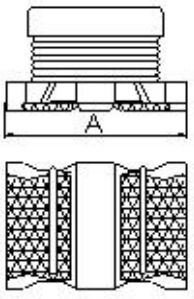
SQV□□□□□□ □ - □□□ □ - □

- CEC Internal No.
- Tolerance
- Inductance
- Packaging Style
- Dimensions code
- Product Symbol

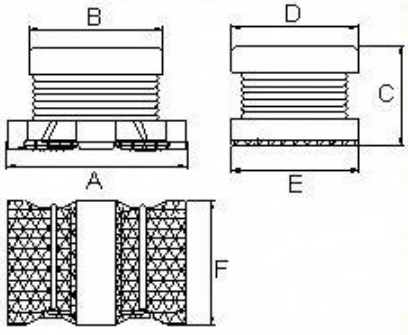
- Packaging: T：Tape and Reel

Shape and Dimensions

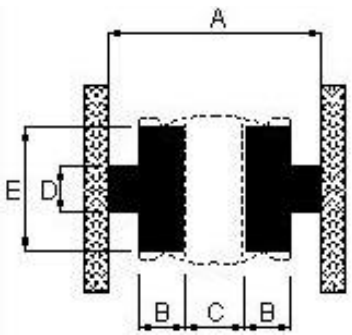
SQV322520



SQV453226



Recommended Pattern



Dimensions in mm

TYPE	A	B	C	D	E	F
SQV322520	3.2±0.3	2.5±0.2	2.0±0.2	-	-	-
SQV453226	4.5±0.3	3.6±0.2	2.6±0.2	3.2±0.2	3.2±0.2	3.2±0.2

Dimensions in mm

TYPE	A	B	C	D	E
SQV322520	5.5	1.0	1.3	1.0	2.0
SQV453226	7.5	1.5	1.5	1.5	3.0

FOR NEW DESIGN

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	Q Min	Test Frequency (MHz)	SRF (MHz) Min	RDC (Ω) Max	Rated current (mA)
SQV322520T-R47□-N	0.47	20	1	20	1	150	0.06	1100
SQV322520T-R82□-N	0.82	20	1	20	1	120	0.25	450
SQV322520T-1R0□-N	1.0	20	1	20	1	100	0.50	445
SQV322520T-1R2□-N	1.2	20	1	20	1	100	0.60	425
SQV322520T-1R5□-N	1.5	20 / 10	1	20	1	75	0.60	400
SQV322520T-1R8□-N	1.8	20 / 10	1	20	1	60	0.70	390
SQV322520T-2R2□-N	2.2	20 / 10	1	20	1	50	0.80	370
SQV322520T-2R7□-N	2.7	20 / 10	1	20	1	43	0.90	320
SQV322520T-3R3□-N	3.3	20 / 10	1	20	1	38	1.0	300
SQV322520T-3R9□-N	3.9	20 / 10	1	20	1	35	1.1	290
SQV322520T-4R7□-N	4.7	20 / 10	1	20	1	31	1.2	270
SQV322520T-5R6□-N	5.6	20 / 10	1	20	1	28	1.3	250
SQV322520T-6R8□-N	6.8	20 / 10	1	20	1	25	1.5	240
SQV322520T-8R2□-N	8.2	20 / 10	1	20	1	23	1.6	225
SQV322520T-100□-N	10	20 / 10	1	35	1	20	1.8	190
SQV322520T-120□-N	12	20 / 10	1	35	1	18	2.0	180
SQV322520T-150□-N	15	20 / 10	1	35	1	16	2.2	170
SQV322520T-180□-N	18	20 / 10	1	35	1	15	2.5	165
SQV322520T-220□-N	22	20 / 10 / 5	1	35	1	14	2.8	150
SQV322520T-270□-N	27	20 / 10	1	35	1	13	3.1	125
SQV322520T-330□-N	33	20 / 10 / 5	1	40	1	12	3.5	115
SQV322520T-390□-N	39	20 / 10	1	40	1	11	3.9	110
SQV322520T-470□-N	47	20 / 10	1	40	1	11	4.3	100
SQV322520T-560□-N	56	20 / 10	1	40	1	10.0	4.9	85
SQV322520T-680□-N	68	20 / 10 / 5	1	40	1	9.0	5.5	80
SQV322520T-820□-N	82	20 / 10 / 5	1	40	1	8.5	6.2	70
SQV322520T-101□-N	100	20 / 10 / 5	1	40	0.796	8.0	7.0	80
SQV322520T-121□-N	120	20 / 10	1	40	0.796	7.5	8.0	75
SQV322520T-151□-N	150	20 / 10	1	40	0.796	7.0	9.3	70
SQV322520T-181□-N	180	20 / 10	1	40	0.796	6.0	10.2	65
SQV322520T-221□-N	220	20 / 10	1	40	0.796	5.5	11.8	65
SQV322520T-271□-N	270	20 / 10	1	40	0.796	5.0	12.5	65
SQV322520T-331□-N	330	20 / 10	1	40	0.796	5.0	13.0	65
SQV322520T-391□-N	390	20 / 10	1	50	0.796	5.0	22.0	50
SQV322520T-471□-N	470	20 / 10	0.001	50	0.796	5.0	25.0	45
SQV322520T-561□-N	560	20 / 10 / 5	0.001	50	0.796	2.0	28.0	40

Note: When ordering, please specify tolerance code. Tolerance : J=±5% , K=±10% , M=±20%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Rated Current：Self temperature rise shall be limited to 35℃ Max Inductance drop 10% typ.
- Measure Equipment：

  L：Agilent HP4285A(1MHz)/Agilent HP4192A(1kHz)

  Q：Agilent HP4285A

  SRF：Agilent HP4286A

  RDC：HP4338B or Chroma 16502

  Rated Current：HP4284A+HP42841A

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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	Q Min	Test Frequency (MHz)	SRF (MHz) Min	RDC (Ω) Max	Rated current (mA)
SQV453226T-1R0□-N	1.0	20	1	20	1	120	0.20	500
SQV453226T-1R2□-N	1.2	20	1	20	1	100	0.20	500
SQV453226T-1R5□-N	1.5	20	1	20	1	85	0.30	500
SQV453226T-1R8□-N	1.8	20	1	20	1	75	0.30	500
SQV453226T-2R2□-N	2.2	20	1	20	1	62	0.30	500
SQV453226T-2R7□-N	2.7	20	1	20	1	53	0.32	500
SQV453226T-3R3□-N	3.3	20	1	20	1	47	0.35	500
SQV453226T-3R9□-N	3.9	20	1	20	1	41	0.38	500
SQV453226T-4R7□-N	4.7	20 / 10	1	30	1	38	0.40	500
SQV453226T-5R6□-N	5.6	20 / 10	1	30	1	33	0.47	500
SQV453226T-6R8□-N	6.8	20 / 10	1	30	1	31	0.50	450
SQV453226T-8R2□-N	8.2	20 / 10	1	30	1	27	0.56	450
SQV453226T-100□-N	10	20 / 10	1	35	1	23	0.56	400
SQV453226T-120□-N	12	20 / 10	1	35	1	21	0.62	380
SQV453226T-150□-N	15	20 / 10 / 5	1	35	1	19	0.73	360
SQV453226T-180□-N	18	20 / 10	1	35	1	17	0.82	340
SQV453226T-220□-N	22	20 / 10 / 5	1	35	1	15	0.94	320
SQV453226T-270□-N	27	20 / 10 / 5	1	35	1	14	1.1	300
SQV453226T-330□-N	33	20 / 10	1	35	1	12	1.2	270
SQV453226T-390□-N	39	20 / 10 / 5	1	35	1	11	1.4	240
SQV453226T-470□-N	47	20 / 10 / 5	1	35	1	10	1.5	220
SQV453226T-560□-N	56	20 / 10	1	35	1	9.3	1.7	200
SQV453226T-680□-N	68	20 / 10 / 5	1	35	1	8.4	1.9	180
SQV453226T-820□-N	82	20 / 10	1	35	1	7.5	2.2	170
SQV453226T-101□-N	100	20 / 10 / 5	1	40	0.796	6.8	2.5	160
SQV453226T-121□-N	120	20 / 10	1	40	0.796	6.2	3.0	150
SQV453226T-151□-N	150	20 / 10	1	40	0.796	5.5	3.7	130
SQV453226T-181□-N	180	20 / 10	1	40	0.796	5.0	4.5	120
SQV453226T-221□-N	220	20 / 10 / 5	1	40	0.796	4.5	5.4	110
SQV453226T-271□-N	270	20 / 10	1	40	0.796	4.0	6.8	100
SQV453226T-331□-N	330	20 / 10	1	40	0.796	3.6	8.2	95
SQV453226T-391□-N	390	20 / 10 / 5	1	40	0.796	3.3	9.7	90
SQV453226T-471□-N	470	20 / 10 / 5	0.001	40	0.796	3.0	11.8	80
SQV453226T-561□-N	560	20 / 10 / 5	0.001	40	0.796	2.7	14.5	70
SQV453226T-681□-N	680	20 / 10	0.001	40	0.796	2.5	17.5	65
SQV453226T-821□-N	820	20 / 10	0.001	40	0.796	2.2	20.5	60
SQV453226T-102□-N	1000	20 / 10 / 5	0.001	40	0.252	2.0	25.0	50
SQV453226T-122□-N	1200	20 / 10	0.001	40	0.252	1.8	30.0	45
SQV453226T-152□-N	1500	20 / 10	0.001	40	0.252	1.6	37.0	40
SQV453226T-182□-N	1800	20 / 10	0.001	40	0.252	1.5	45.0	35
SQV453226T-222□-N	2200	20 / 10 / 5	0.001	40	0.252	1.3	50.0	30

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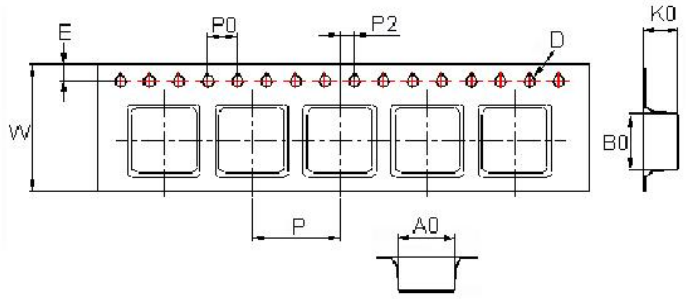
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  Q：Agilent HP4285A
  SRF：Agilent HP4291A
  RDC：HP4338B or Chroma 16502
  Rated Current：HP4284A+HP42841A

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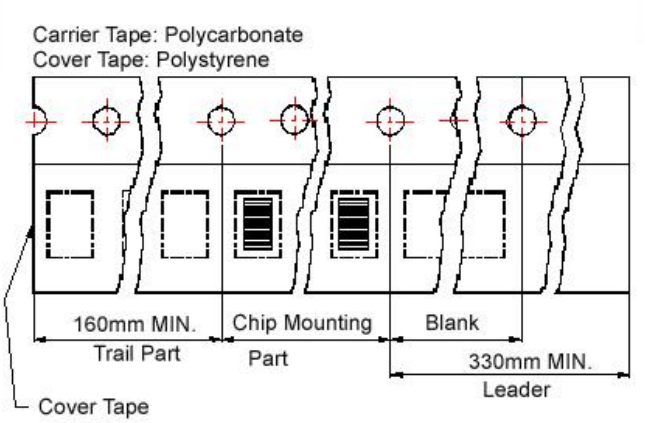
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Packaging Specifications

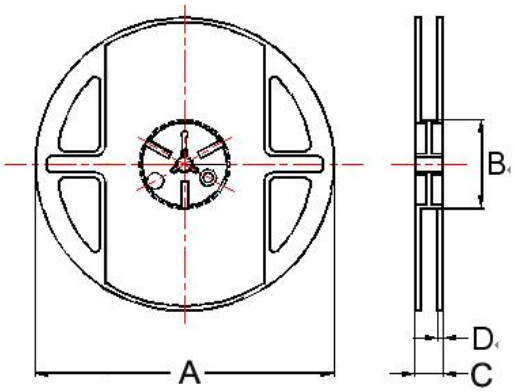
Tape Dimensions



Tape Material



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions									Reel Dimensions				Quantity
	A0	B0	K0	D	E	W	P	P0	P2	A	B	C	D	PCS / REEL
SQV322520	2.90	3.60	2.25	1.5	1.75	8	4	4	2	178	60	9	1.5	2000
SQV453226	3.60	4.90	3.00	1.5	1.75	12	8	4	2	178	60	13.2	1.5	500

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