

SHL Series

RF & Microwave Capacitors, NP0, RoHS

DESCRIPTION

Lowest ESR in class
 Standard EIA size
 High Self Resonance Frequencies



APPLICATIONS

- Cellular Base Station Equipment
- Broadband Wireless Service
- Point to Point/Multipoint Radios
- RF Generators (NMR...)

CIRCUIT APPLICATIONS

- Filter Networks
- Matching Networks
- Tuning, Coupling and DC Blocking

I. ELECTRICAL SPECIFICATIONS

<i>Parameter</i>	<i>Value</i>
Capacitance	0.1 to 33 pF
Tolerances	A, B, C, D below 10 pF F, G, J, K above 10 pF
Working Voltage (WVDC)	see Capacitance Value chart
Temperature Coefficient	0 +/-30ppm/°C, -55°C to +125°C
Insulation Resistance	10 ⁵ MΩ min
Dielectric Withstanding	2.5 x WVDC for 5 seconds
Aging	none
Piezo Effects	none

II. MECHANICAL SPECIFICATIONS

<i>Parameter</i>	<i>Value</i>	<i>Comment</i>
Case Size	L	0402

<i>Termination Type</i>	<i>Code</i>	<i>SHL</i>
Standard (tin-plated nickel)	S	AVAILABLE

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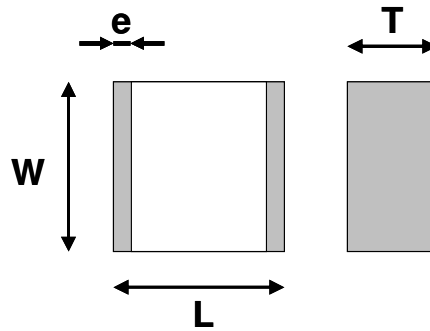
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III. ENVIRONMENTAL SPECIFICATIONS

<i>Parameter</i>	<i>Value</i>
Life Test	1'000 hours, +125°C at 2.0 x WVDC
Moisture Resistance Test 1	240 hours, 85% relative humidity at +85°C (ESA/SCC n°3009)
Moisture Resistance Test 2	56 days, 93% relative humidity at +40°C 0V, 5V, WVDC

IV. OUTLINE DIMENSIONS

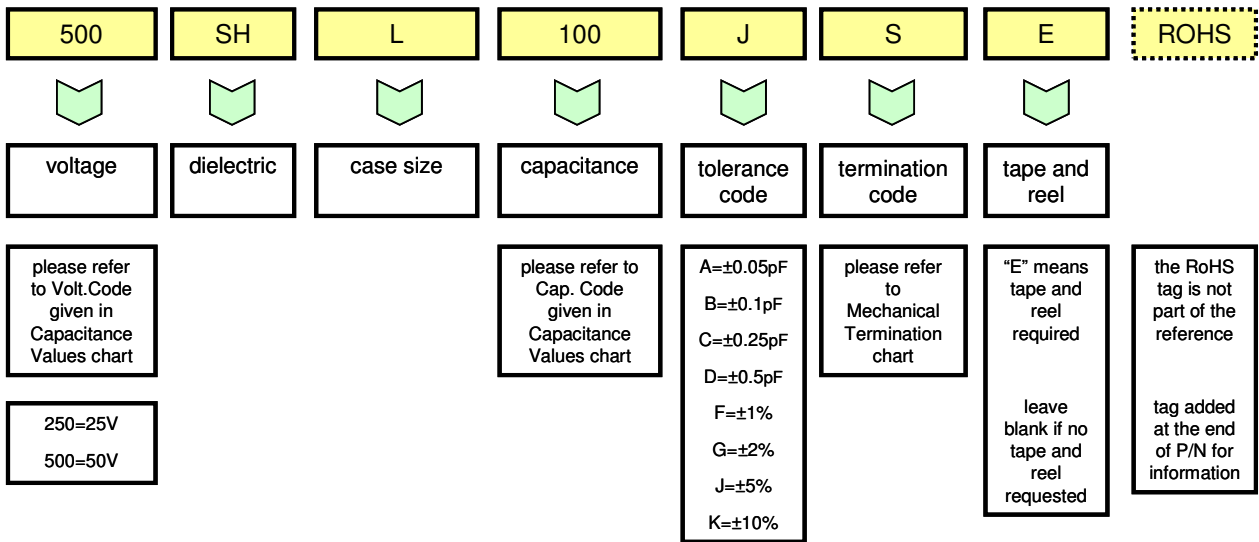
<i>Parameter</i>	<i>L</i> <i>(0402)</i>
Length (L)	1.00 ±0.15mm
Width (W)	0.50 ±0.15mm
Thickness (T)	0.50 mm (max.)
End-Band (e)	0.25 ±0.15mm



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V. HOW TO ORDER



NB:

- for capacitance values lower than 10pF, tolerances B, C and D apply. For capacitance values equal to or higher than 10pF, tolerances F, G, J and K apply. Also, the A tolerance is only available up to 2pF inclusive (please consult us for specific requirements).

VI. TAPE AND REEL

The following chart gives the number of components per reel.

	SHL
Parts per Reel	10'000

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VII. CAPACITANCE VALUES

Value (pF)	Cap. Code	L (0402)	Value (pF)	Cap. Code	L (0402)	
0.2	0R2	50V	3.3	3R3	50V	
0.3	0R3		3.6	3R6		
0.4	0R4		3.9	3R9		
0.5	0R5		4.3	4R3		
0.6	0R6		4.7	4R7		
0.7	0R7		5.1	5R1		
0.8	0R8		5.6	5R6		
0.9	0R9		6.2	6R2		
1.0	1R0		6.8	6R8		
1.1	1R1		7.5	7R5		
1.2	1R2		8.2	8R2		
1.3	1R3		9.1	9R1		
1.4	1R4		10	100		
1.5	1R5		11	110		
1.6	1R6		12	120		
1.7	1R7		15	150		
1.8	1R8		16	160		
1.9	1R9		18	180		
2.0	2R0		20	200		
2.1	2R1		22	220		
2.2	2R2		24	240		
2.4	2R4		27	270		
2.7	2R7		30	300		
3.0	3R0		33	330		25V

NB: special values, tolerances, higher WVDC and matching available, please consult factory.