

SHN Series

RF & Microwave Capacitors, NP0, RoHS

DESCRIPTION

Lowest ESR in class
 Highest working voltage in class - 500V
 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

Parameter	Value
Capacitance	0.5 to 220 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

Parameter	Value	Comment
Case Size	N	1206

NB:

- all the terminations are backward compatible and lead-free.
- the non-magnetic terminations are all Magnetism-free Rated.

MR certified®

ITAR Free®

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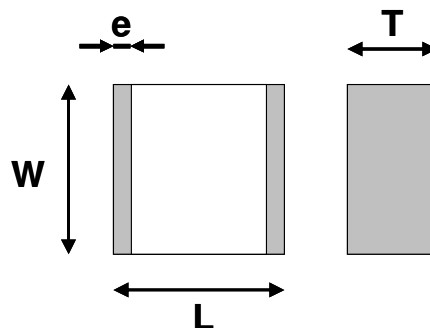
Termination Type	Code	SHN
Standard (tin-plated nickel)	S	AVAILABLE
Non-magnetic (silver-palladium)	A	AVAILABLE

III. ENVIRONMENTAL SPECIFICATIONS

Parameter	Value
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

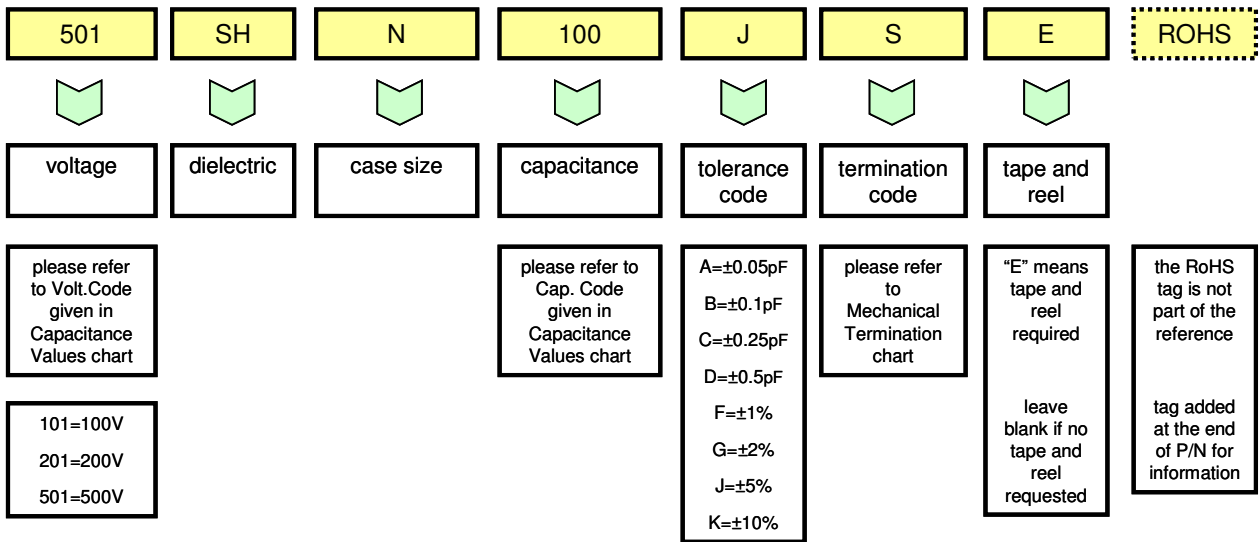
Parameter	N (1206)
Length (L)	3.18 ±0.25mm
Width (W)	1.58 ±0.25mm
Thickness (T)	1.27 mm (max.)
End-Band (e)	0.50 ±0.25mm



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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.

VI. TAPE AND REEL

The following chart gives the number of components per reel.

<i>SHN</i>	
Parts per Reel	3'000

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VII. CAPACITANCE VALUES

Value (pF)	Cap. Code	N (1206)	Value (pF)	Cap. Code	N (1206)	
0.5	0R5	500V	10	100	500V	
0.6	0R6		11	110		
0.7	0R7		12	120		
0.8	0R8		13	130		
0.9	0R9		15	150		
1.0	1R0		16	160		
1.1	1R1		18	180		
1.2	1R2		20	200		
1.3	1R3		22	220		
1.4	1R4		24	240		
1.5	1R5		27	270		
1.6	1R6		30	300		
1.7	1R7		33	330		
1.8	1R8		36	360		
1.9	1R9		39	390		
2.0	2R0		43	430		
2.1	2R1		47	470		
2.2	2R2		51	510		200V
2.4	2R4		56	560		
2.7	2R7		62	620		
3.0	3R0	68	680			
3.3	3R3	75	750			
3.6	3R6	82	820			
3.9	3R9	91	910	100V		
4.3	4R3	100	101			
4.7	4R7	110	111			
5.1	5R1	120	121			
5.6	5R6	130	131			
6.2	6R2	150	151			
6.8	6R8	160	161			
7.5	7R5	180	181			
8.2	8R2	200	201			
9.1	9R1	220	221			

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