

SHT 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	1 to 1'000 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	T	1210

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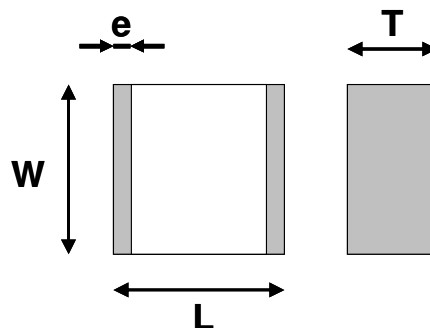
Termination Type	Code	SHT
Standard (tin-plated nickel)	S	AVAILABLE
Non-magnetic (silver-palladium)	A	AVAILABLE

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

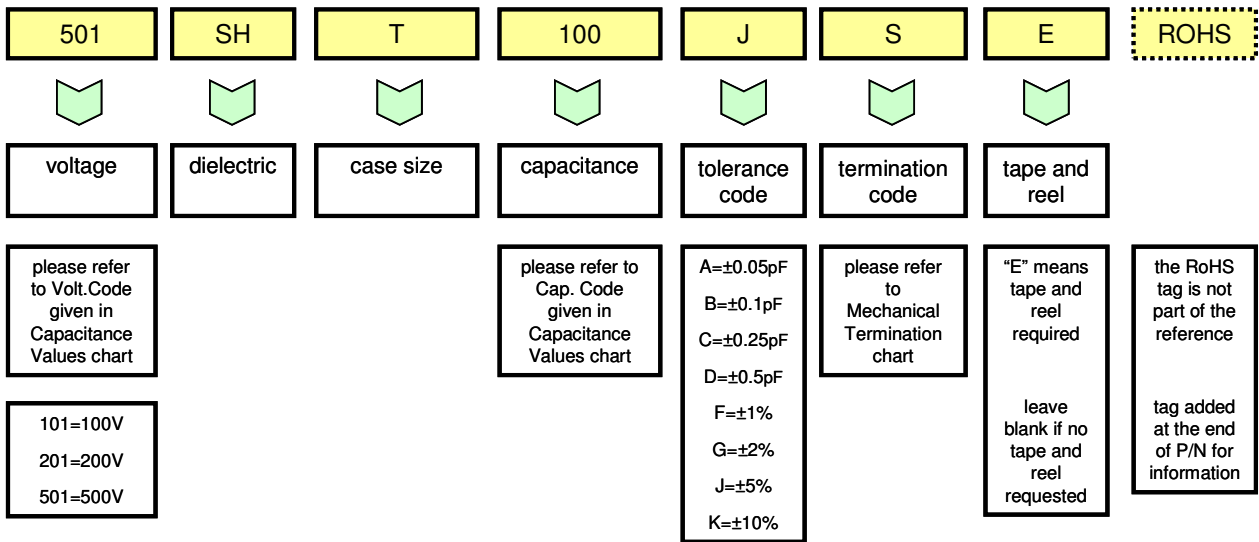
Parameter	T (1210)
Length (L)	3.18 ±0.25mm
Width (W)	2.41 ±0.25mm
Thickness (T)	1.52 mm (max.)
End-Band (e)	0.50 ±0.25mm



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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.

SHT	
Parts per Reel	3'000

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VII. CAPACITANCE VALUES

Value (pF)	Cap. Code	T (1210)	Value (pF)	Cap. Code	T (1210)
1.0	1R0	500V	30	300	500V
1.1	1R1		33	330	
1.2	1R2		36	360	
1.3	1R3		39	390	
1.4	1R4		43	430	
1.5	1R5		47	470	
1.6	1R6		51	510	
1.7	1R7		56	560	
1.8	1R8		62	620	
1.9	1R9		68	680	
2.0	2R0		75	750	
2.1	2R1		82	820	
2.2	2R2		91	910	
2.4	2R4		100	101	
2.7	2R7		110	111	
3.0	3R0		120	121	
3.3	3R3		130	131	
3.6	3R6	150	151		
3.9	3R9	160	161		
4.3	4R3	180	181		
4.7	4R7	200	201		
5.1	5R1	220	221		
5.6	5R6	240	241		
6.2	6R2	270	271		
6.8	6R8	300	301		
7.5	7R5	330	331		
8.2	8R2	360	361		
9.1	9R1	390	391		
10	100	430	431		
11	110	470	471		
12	120	510	511		
15	150	560	561		
16	160	620	621		
18	180	680	681		
20	200	750	751		
22	220	820	821		
24	240	910	911		
27	270	1 000	102		

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