

Type: CSM54, CSM54N

UNDER DEVELOPMENT

◆ Product Description

- 5.8×5.8mm Max.(L×W), 5.2mm Max. Height (CSM54),
- 5.2×5.2mm Max.(L×W), 5.0mm Max. Height (CSM54N),
- Inductance: 10~77nH(CSM54);12~126nH(CSM54N)
- Operating frequency: 30MHz~150MHz(with ferrite core)
- In addition to the reference versions of parameters shown here, custom designs are available to meet your exact requirements.

CSM54



CSM54N

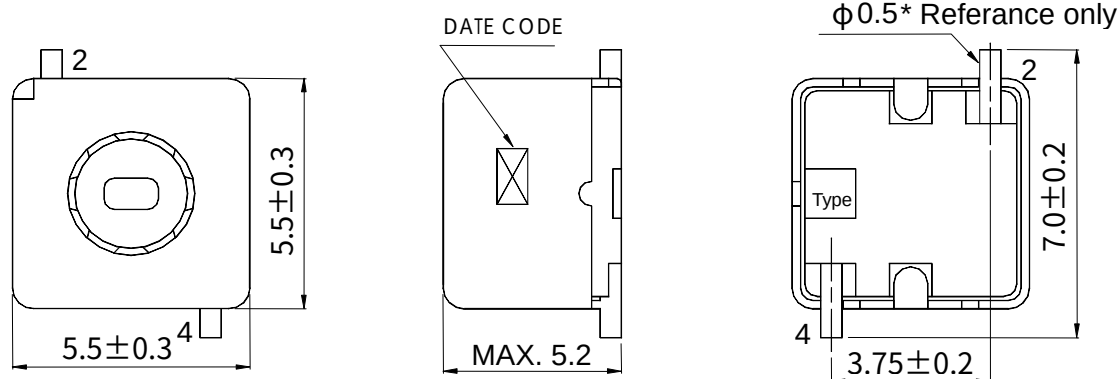


◆ Feature

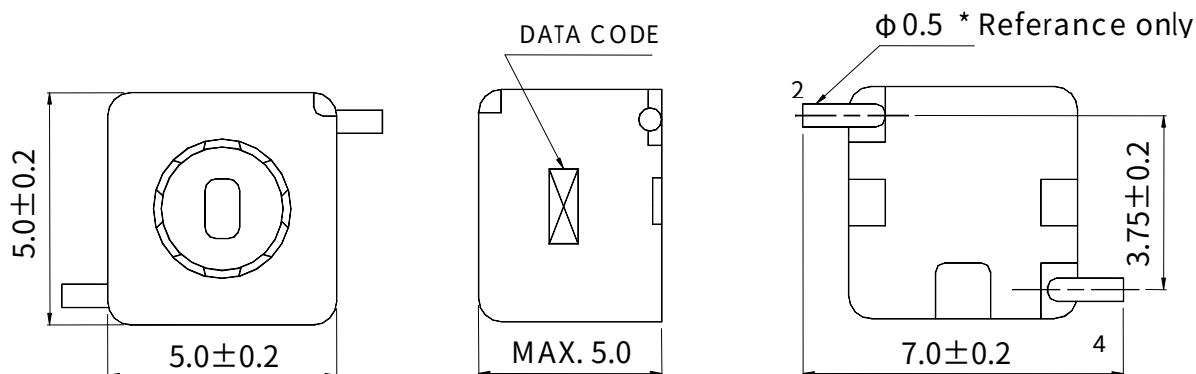
- Low profile SMT molded coil.
- Used in RF circuits for communication and car radio applications.
- RoHS Compliance

◆ Dimensions (mm)

CSM54 (With case)

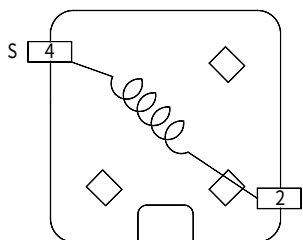


CSM54N (Without case)



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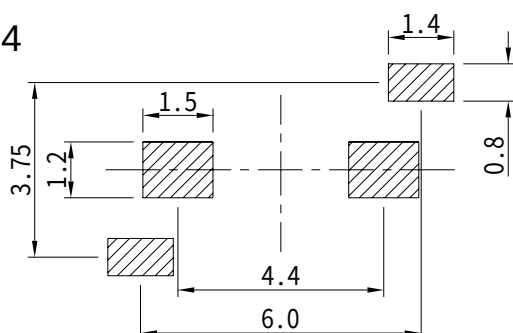
◆ Connection (Bottom View)



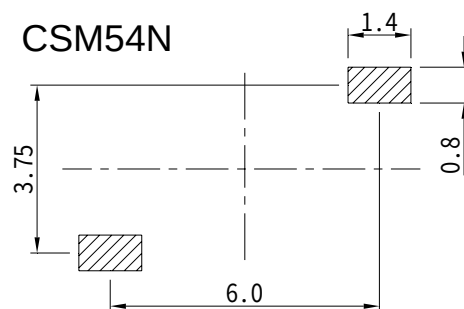
“S” is winding start.

◆ Land Pattern (mm)

CSM54



CSM54N



◆ Specification (CSM54)

NO.	Part NO.	Colour Mark	Turns	Adjustable capacitance Variable range	Unloaded Q	Inductance	Test Freq.
(1~6) FERRITE CORE							100MHz
1	CSM54-1R5F	Yellow	1.5 T	107pF±1% Variable	Min 44	10nH	
2	CSM54-2R5F	Red	2.5 T	70.6pF±1% Variable	Min 49	21nH	
3	CSM54-3R5F	Nature	3.5 T	51.8pF±1.9% Variable	Min 50	34nH	
4	CSM54-4R5F	Orange	4.5 T	38.8pF±1.7%Variable	Min 50	48nH	
5	CSM54-5R5F	Green	5.5 T	31.9pF±1% Variable	Min 50	62nH	
6	CSM54-6R5F	Blue	6.5 T	27.0pF±1% Variable	Min 56	77nH	
(7~12) AIR CORE							
7	CSM54-1R5A	Yellow	1.5 T	107pF±10% Within	Min 46	10nH	
8	CSM54-2R5A	Red	2.5 T	76.5pF±10% Within	Min 50	19nH	
9	CSM54-3R5A	Nature	3.5 T	57.4pF±10% Within	Min 52	29nH	
10	CSM54-4R5A	Orange	4.5 T	45.7pF±10% Within	Min 53	40nH	
11	CSM54-5R5A	Green	5.5 T	37.5pF±10% Within	Min 53	52nH	
12	CSM54-6R5A	Blue	6.5 T	32.4pF±10% Within	Min 60	63nH	

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www.sumida.com

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◆ Specification (CSM54N)

NO.	Part NO.	Colour Mark	Turns	Adjustable capacitance Variable range	Unloaded Q	Inductance	Test Freq.
(1~6) FERRITE CORE							100MHZ
1	CSM54N-1R5F	Yellow	1.5 T	93.3pF±1.0% Variable	Min 55	12nH	
2	CSM54N-2R5F	Red	2.5 T	59.3pF±1.2% Variable	Min 64	28nH	
3	CSM54N-3R5F	Nature	3.5 T	38.7pF±2.0% Variable	Min 66	48nH	
4	CSM54N-4R5F	Orange	4.5 T	27.4pF±1.8% Variable	Min 69	72nH	
5	CSM54N-5R5F	Green	5.5 T	21.1pF±1.0% Variable	Min 63	98nH	
6	CSM54N-6R5F	Blue	6.5 T	17.0pF±1.0% Variable	Min 71	126nH	
(7~12) AIR CORE							
7	CSM54N-1R5A	Yellow	1.5 T	102.1pF±10% Within	Min 53	10nH	
8	CSM54N-2R5A	Red	2.5 T	67.9pF±10% Within	Min 58	23nH	
9	CSM54N-3R5A	Nature	3.5 T	48.4pF±10% Within	Min 64	37nH	
10	CSM54N-4R5A	Orange	4.5 T	36.2pF±10% Within	Min 67	53nH	
11	CSM54N-5R5A	Green	5.5 T	28.2pF±10% Within	Min 70	72nH	
12	CSM54N-6R5A	Blue	6.5 T	23.3pF±10% Within	Min 81	90nH	

*The screw cores are allowed to fly out 2 turns from top of bobbin or metal case to get the minimum inductance.

*Q measured using VHF Q-meter.

*Inductance measured with Agilent 4194A or equivalent, the values reference only.