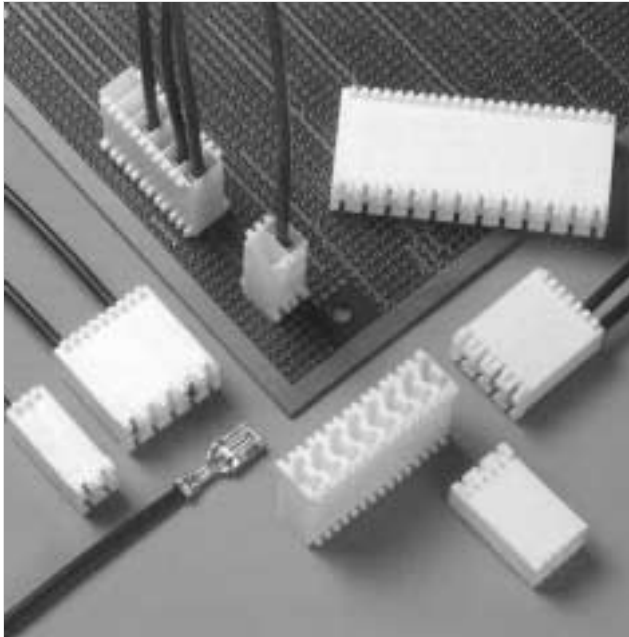




# RSF CONNECTOR

5.0mm  
(.197") pitch

Connectors for tabs



## Features

### • **Secure locking, easy insertion**

The combination of terminal and housing allows easy mating to a male tab. Unmating is equally easy. Simply hold the housing and pull. The contact locking spring is depressed by the taper inside the housing. The locking mechanism prevents accidental disengagement of the contact from the mating tab.

### • **Stable contact performance**

The contact is designed as a low insertion force with a large contact area to give stable performance, even when high current is applied.

### • **Lanceless contacts help to prevent contact back out**

Removal of the locking lance from the contact and putting it in the housing eliminates a major cause of contact backout due to damaged locking lances during termination and harness assembly.

### • **Housing options:**


Selective removal of the built-in keys, allows for an infinite number of keying possibilities. In addition, contact cavities can be blocked using the cavity blocking plug or molded into the housing when volume requirements dictate. The housings can be molded in various colors.


## Specifications

- Current rating: 20A AC, DC max. (#250 tab + AWG#12)
- Voltage rating: 250V AC, DC max.
- Temperature range: -40°C to +105°C  
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 3m Ω max.  
After environmental testing/ 6m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 2,000V AC/minute
- Applicable wire: #250...AWG #22 to #12
- Applicable tab: #250 Tab 0.8mm(.031") thick

- \* Contact JST if Lead-Free product is required.
- \* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- \* Contact JST for details.

## Standards

 Recognized E60389

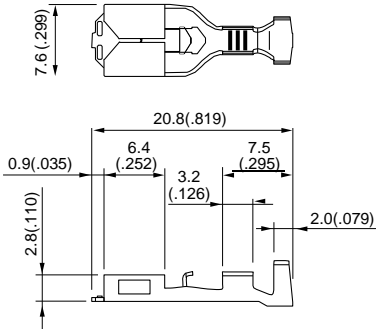
 Certified C22.2 #182.3-M1987

# RSF CONNECTOR

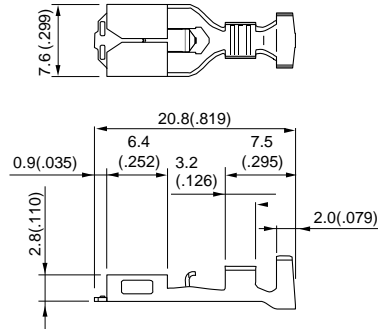
## Contact

### #250 Series

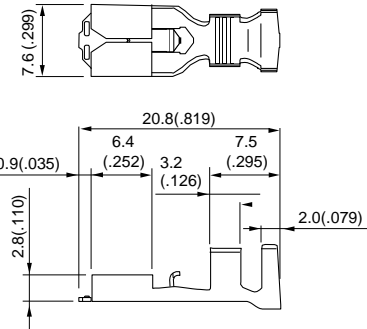
SRSF-21T-250A\* (Tin Plated)  
SRSF-21-250A\* (Unplated)



SRSF-61T-250A\* (Tin Plated)  
SRSF-61-250A\* (Unplated)

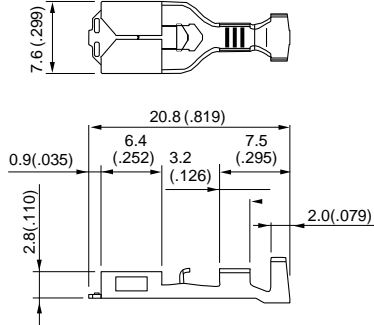


SRSF-91T-250A\* (Tin Plated)  
SRSF-91-250A\* (Unplated)

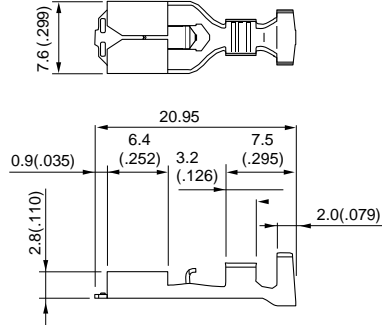


### #250 Series Nickel Plated Steel

SRSF-21N-250FE\*

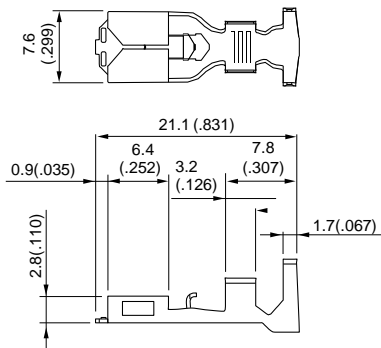


SRSF-61N-250FE\*



### #250 Series Double Wire Crimp

SRSF-82T-250A\* (Tin Plated)  
SRSF-82-250A\* (Unplated)



Note: \*Contact JST for availability.

# Title: Current rating for SRSF connector

SRSF-91( )-250A and SRSF-91( )-250AS

Unit: A

position	current rating	
	AWG#12	AWG#14
2	20	15
3	19	15
4	19	15
5	19	15
6	17	14
7	17	14
8	17	14
9	15	13
10	15	13
11	15	13
12	15	13

SRSF-61( )-250A

Unit: A

position	current rating		
	AWG#14	AWG#16	AWG#18
2	15	10	7
3	14	10	7
4	12	10	7
5	12	10	7
6	11	10	7
7	11	10	7
8	11	10	7
9	10	10	7
10	10	10	7
11	10	10	7
12	10	10	7

SRSF-82( )-250A

Unit: A

position	current rating		
	AWG#16+16	AWG#16+18	AWG#16+20
2	10	10	10
3	10	10	10
4	10	10	10
5	10	10	10
6	10	10	10
7	10	10	10
8	10	10	10
9	10	10	10
10	10	10	10
11	10	10	10
12	10	10	10

SRSF-21( )-250A

Unit: A

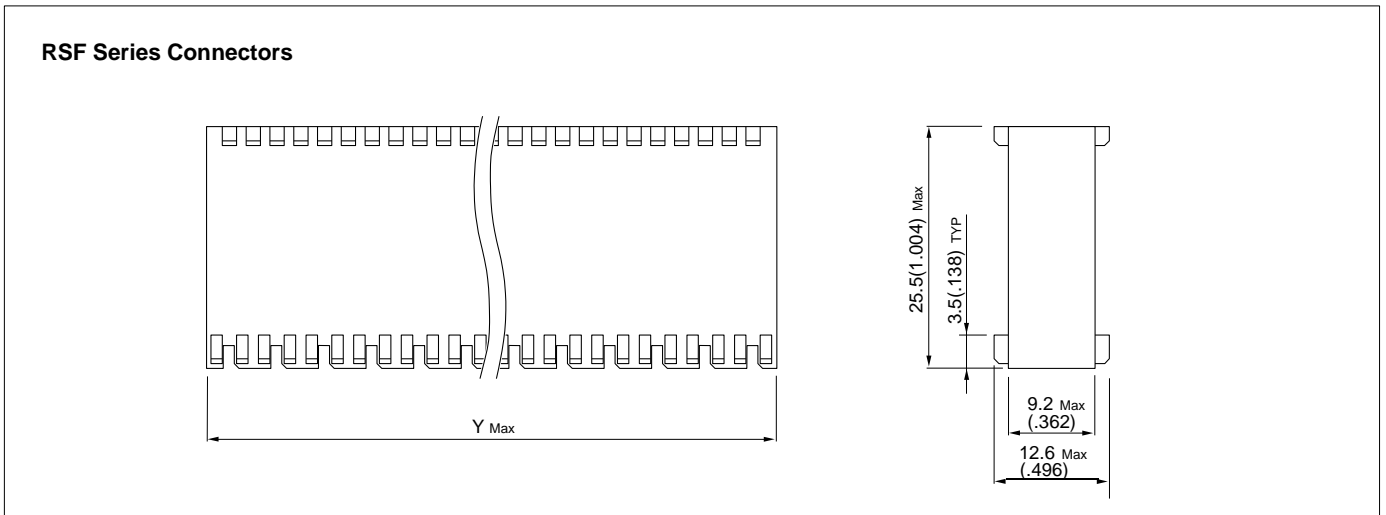
position	current rating		
	AWG#18	AWG#20	AWG#22
2	7	4	3
3	7	4	3
4	7	4	3
5	7	4	3
6	7	4	3
7	7	4	3
8	7	4	3
9	7	4	3
10	7	4	3
11	7	4	3
12	7	4	3

## Contact

Model No.	Series	Applicable wire			Material	Finish	Q'ty / reel
		mm <sup>2</sup>	AWG # UL1015	Insulation O.D. mm(in.)			
SRSF-21-250A*	#250	0.32 to 0.82	22 to 18	2.5 to 3.0(.098 to .118)	Brass	—	5,000
SRSF-21T-250A*						Tin-plated	
SRSF-61-250A		0.82 to 2.08	18 to 14	3.0 to 3.9(.118 to .154)	Brass	—	5,000
SRSF-61T-250A						Tin-plated	
SRSF-91-250A*		2.08 to 3.30	14 to 12	3.9 to 4.4(.154 to .173)	Brass	—	5,000
SRSF-91T-250A*						Tin-plated	
SRSF-82-250A*		0.82+0.82, 1.31+1.31, 1.31+0.52	18+18, 16+16, 16+14, 16+20	3.0+3.0 to 3.4+3.4(.118+.118 to .134+.134)	Brass	—	5,000
SRSF-82T-250A*						Tin-plated	
SRSF-21N-250FE*		0.32 to 0.82	22 to 18	2.5 to 3.0(.098 to .118)	Steel	Nickel-plated	5,000
SRSF-61N-250FE*		0.82 to 1.25	18 to 16	3.0 to 3.4(.118 to .134)			

Note: Contact Extraction Tool Part Number: AEJ-RSF250H

\*Contact JST for availability.

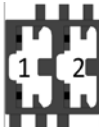




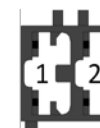




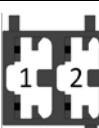

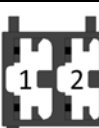

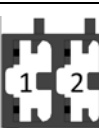


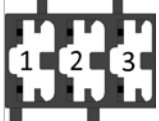
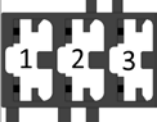
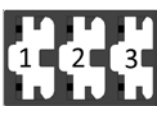

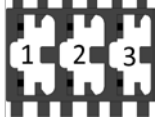
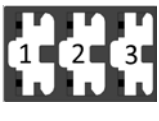
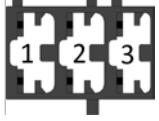

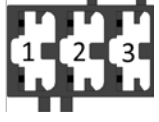


Circuits	Model No.	Q'ty/bag	"Y"Max.mm(in.)	Applicable terminal
1	<b>RSFP-LP-1V-250</b>	10,000	5.3 (.209)	
2	<b>RSFP-2V</b>	3,000	10.0 (.394)	SRSF-21T-250A
3	<b>RSFP-3V</b>	2,000	15.0 (.591)	SRSF-21-250A
4	<b>RSFP-4V</b>	2,000	20.0 (.787)	SRSF-61T-250A
5	<b>RSFP-5V</b>	1,500	25.0 (.984)	SRSF-61-250A
6	<b>RSFP-6V</b>	1,000	30.0 (1.181)	SRSF-91T-250A
7	<b>RSFP-7V</b>	1,000	35.0 (1.378)	SRSF-91-250A
8	<b>RSFP-8V</b>	1,000	40.0 (1.575)	SRSF-82T-250A
9	<b>RSFP-9V</b>	800	45.0 (1.772)	SRSF-82-250A
10	<b>RSFP-10V</b>	500	50.0 (1.969)	SRSF-21N-250FE
11	<b>RSFP-11V</b>	500	55.0 (2.165)	SRSF-61N-250FE
12	<b>RSFP-12V</b>	500	60.0 (2.362)	

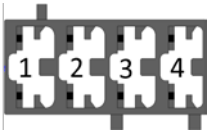
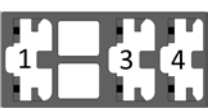

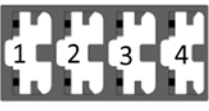
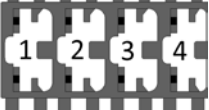
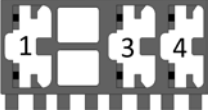
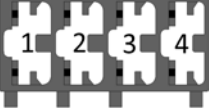



### Material and Finish


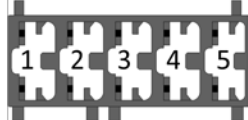
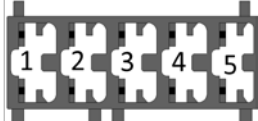
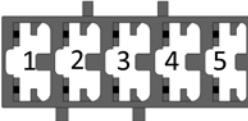
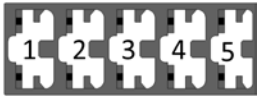
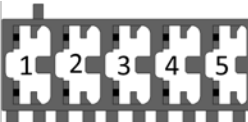
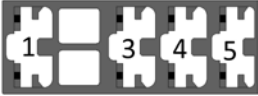

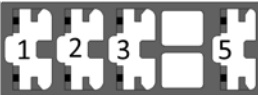
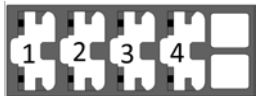
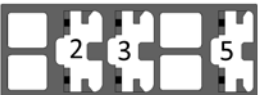
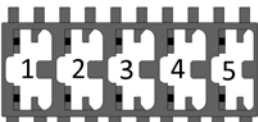
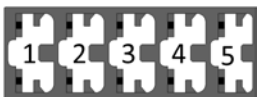

Nylon 66, UL94V-0, natural(white) Other colors available upon request.

Notes: Consult JST for keying options and colored housings.  
 Cavity Blocking Plug Part Number: RSFP-PK.  
 Mates with NEMA, PC Mounted tabs only.

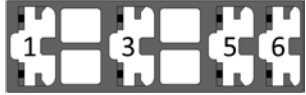

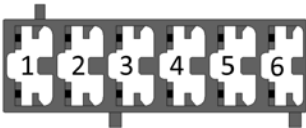
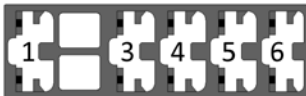


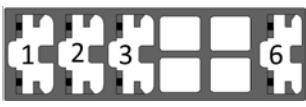
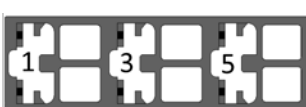
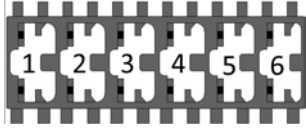
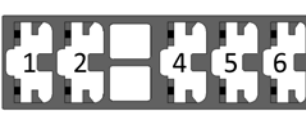

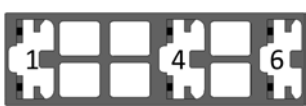
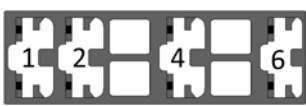
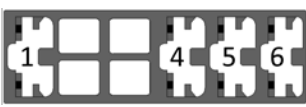
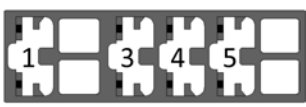
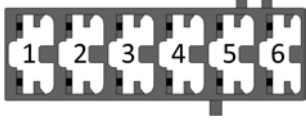
2 Position Housing Part Numbers	Keying	2 Position Housing Part Numbers	Keying
RSFP-2V-16		RSFP-2V-P	
RSFP-2V-17		RSFP-2V-09	
RSFP-2V-18		RSFP-2V-A	
RSFP-2V-G			
RSFP-2V-H			
RSFPE-2V-00 (Extended Length Series - 44.3mm)			
RSFP-2V			
RSFP-2V-E			
RSFP-2V-00 (Natural) RSFP-2VB-00 (Black)			
RSFP-2V-B			
RSFP-2V-K			
RSFP-2V-I			

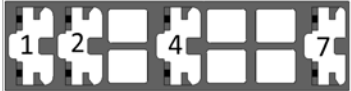


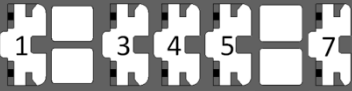
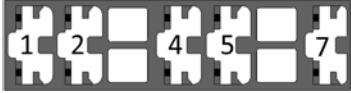

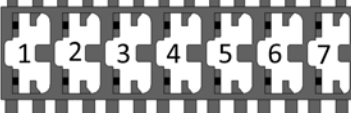
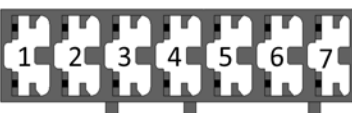









3 Position Housing Part Numbers	Keying	3 Position Housing Part Numbers	Keying
RSFP-3V-27			
RSFP-3V-36			
RSFP-3V-00			
RSFP-2(3)V-00			
RSFP-3V			
RSFP-3VB-00			
RSFP-3V-29			
RSFP-2(3)V-00			
RSFP-3V-B			
RSFP-3V-ZB			
RSFP-3V-A			


















4 Position Housing Part Numbers	Keying	4 Position Housing Part Numbers	Keying
RSFP-4V-A			
RSSP-G4V-00			
RSFP-2(4)V-00			
RSFP-3(4)V-00			
RSFP-4V-00			
RSFP-4V			
RSFP-2(4)V			
RSFP-4V-19			
RSFP-2.3(4)V-00			
RSFP-4V-C			
RSFP-4V-27			

5 Position Housing Part Numbers	Keying	5 Position Housing Part Numbers	Keying
RSFP-2.3(5)V-00		RSFP-5V-AA	
RSFP-5V-AA		RSFP-5V-DA	
RSFP-5V-00		RSFP-5V-ES	
RSFP-2(5)V-00			
RSFP-3(5)V-00			
RSFP-4(5)V-00			
RSFP-5(5)V-00			
RSFP-1.4(5)V-00			
RSFP-5V			
RSFP-5VB-00			
RSFP-3(5)VB-00			



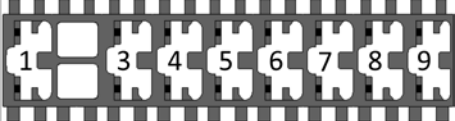
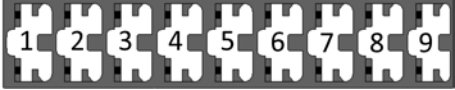



6 Position Housing Part Numbers	Keying	6 Position Housing Part Numbers	Keying
RSFP-2.4(6)V-00		RSFP-3.4(6)V-00	
RSFP-6V-A		RSFP-2(6)V-00	
RSFP-2.3.4(6)V-FA		RSFP-6V-00	
RSFP-4.5(6)V-00		RSFP-2.4.6(6)V-00	
RSFP-6V		RSFP-3(6)V-00	
RSFP-4(6)V-00			
RSFP-2.3.5(6)V-00			
RSFP-3.5(6)V-00			
RSFP-2.3(6)V-00			
RSFP-2.6(6)V-00			
RSFP-6V-FS			











7 Position Housing Part Numbers	Keying	7 Position Housing Part Numbers	Keying
RSFP-3.5.6(7)V-00		RSFP-4.6(7)VB-00	
RSFP-3(7)V-00		RSFP-2.6(7)V-00	
RSFP-3.6(7)V-00		RSFP-5(7)V-00	
RSFP-7V		RSFP-7V-A	
RSFP-3.5(7)V-00		RSFP-7VB-00	
RSFP-4.5.6(7)V-00		RSFP-3.4(7)VB-00	
RSFP-7V-00			
RSFP-2.3.4(7)V-00			
RSFP-2.3.6(7)VB-00			
RSFP-2.3(7)V-00			
RSFP-2(7)V-00			

8 Position Housing Part Numbers	Keying	8 Position Housing Part Numbers	Keying
RSFP-1.6(8)V-00		RSFP-6(8)V-00	
RSFP-1.7(8)V-00		RSFP-6.7(8)V-00	
RSFP-2.3(8)V-00		RSFP-8V-00	
RSFP-2.4(8)V-00		RSFP-8V-D	
RSFP-2.4.6.7(8)V-00		RSFP-8V	
RSFP-2.6(8)V-00			
RSFP-3(8)V-00			
RSFP-4(8)V-00			
RSFP-4.5.7.8(8)V-00			
RSFP-4.5.8(8)V-00			
RSFP-5(8)V-00			
RSFP-5.6(8)V-00			

**9 Position Housing  
Part Numbers**







**Keying**

<p><b>RSFP-2(9)V</b></p>	
<p><b>RSFP-9V-00</b></p>	
<p><b>RSFP-7(9)V-00</b></p>	
<p><b>RSFP-1.2.4.5.8(9)V-00</b></p>	
<p><b>RSFP-4.5.7.8(9)V-00</b></p>	

10 Position Housing Part Numbers	Keying
RSFP-2.4.6.7.9(10)V-00	
RSFP-2.5.6.7.8(10)V-00	
RSFP-3(10)V-00	
RSFP-4.5.7(10)V-00	
RSFP-4.9(10)V-00	
RSFP-6(10)V-00	
RSFP-6(10)VB-00	
RSFP-6.7(10)V-00	
RSFP-10V-00	
RSFP-10VB	

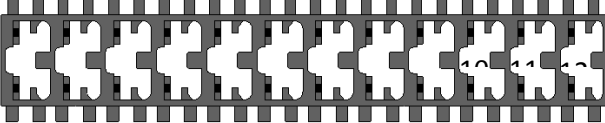


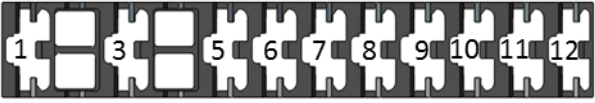

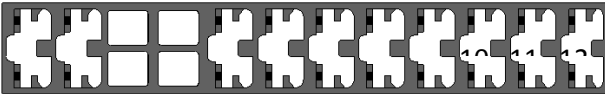
**11 Position Housing  
Part Numbers**

**Keying**

<p><b>RSFP-11V</b></p>	
<p><b>RSFP-11V-00</b></p>	
<p><b>RSFP-2.8.9(11)V-00</b></p>	
<p><b>RSFP-3.8(11)V-00</b></p>	
<p><b>RSFP-4.9(11)V-00</b></p>	
<p><b>RSFP-4.9(11)VB-00</b></p>	

**12 Position Housing  
Part Numbers**

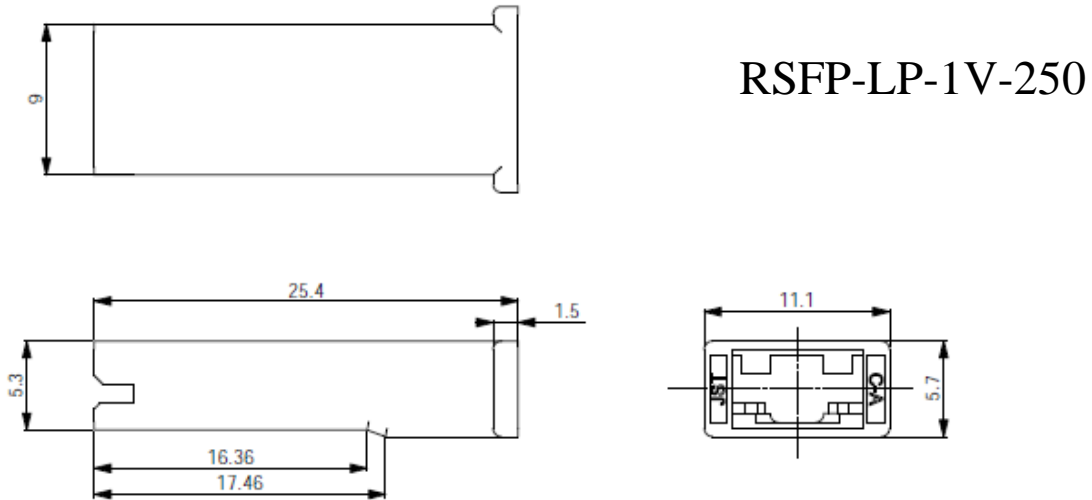
**Keying**

<p><b>RSFP-12V</b></p>	
<p><b>RSFP-1(12)V-00</b></p>	
<p><b>RSFP-2.3(12)V-00</b></p>	
<p><b>RSFP-2.4(12)V-00</b></p>	
<p><b>RSFP-2.12(12)V-00</b></p>	
<p><b>RSFP-3.4(12)V-00</b></p>	

# Single Position Low Profile RSF Housing

Housing

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Contact

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Applicable Contacts and Wire Gauges		
Part #	Wire Gauge	Material
SRSF-21-250A	22-18	Brass
SRSF-21T-250A		Brass-Tin Plated
SRSF-61-250A	18-14	Brass
SRSF-61T-250A		Brass-Tin Plated
SRSF-91-250A	14-12	Brass
SRSF-91T-250A		Brass-Tin Plated
SRSF-82-250A	18+18, 16+16, 16+20, 16+14	Brass
SRSF-82T-250A		Brass-Tin Plated

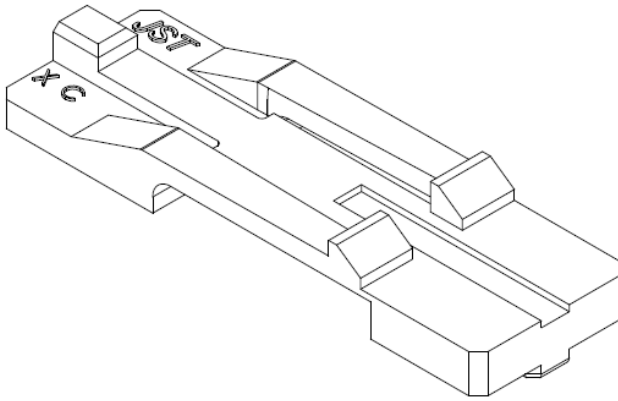


# RSF CONNECTOR

## Cavity Blocking Plug

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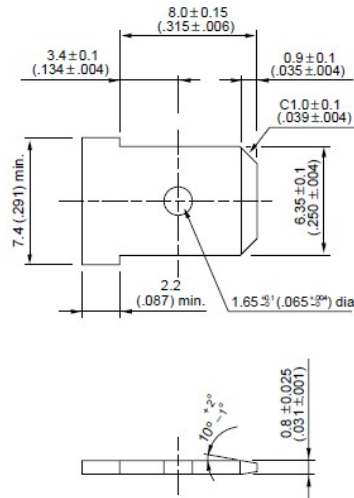
### RSFP-PK



## Applicable tab

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0.250" x 0.031" Tab



Note: Make sure there are no unneeded ribs or other protuberances on tab surfaces.