

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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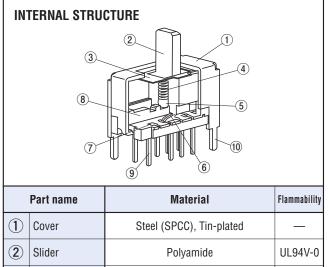


FEATURES

- RoHS compliant
- Covering the DC ~ 1 GHz frequency spectrum
- Gold-plated contact provides excellent reliability

APPLICATIONS

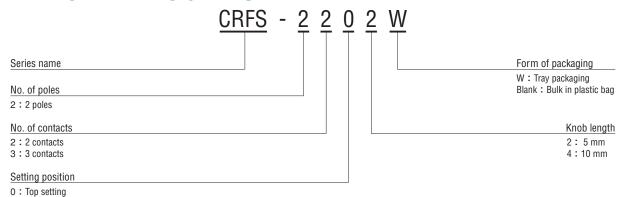
- Communication devices
- Broadcast equipment
- FA equipment



	Cover	Steel (SPCC), Tin-plated	_		
2) Slider	Polyamide	UL94V-0		
3	Slider plate *1	Polyester			
4	Click spring	SWP			
<u>(5</u>	Click ball	SUS	_		
6	Slider contact	Conner alloy Cold plated			
7) Fixed contact	Copper alloy, Gold-plated			
8	Housing	(Polyphenylenesulphide)	UL94V-0		
9) Terminal pin	Copper alloy, Gold-plated			
10	Ground terminal	Steel (SPCC), Tin-plated	_		

※1: 2 poles 3 contacts only

PART NUMBER DESIGNATION



LIST OF PART NUMBERS

Catting position	Chang of torminals	Vnob longth	Form of nookoging	No. of contacts		Diagon in nackago
Setting position	Shape of terminals	Knob length	Form of packaging	2	3	Pieces in package
		F	Tray packaging	CRFS-2202W	CRFS-2302W	50 pcs./tray
Ton cotting	Through halo nine	5 mm		CRFS-2302	25 pcs./pack	
Top setting	Through hole pins	10	Tray packaging	CRFS-2204W	CRFS-2304W	
		10 mm	Bulk in plastic bag	CRFS-2204	CRFS-2304	25 pcs./pack

STANDARD SPECIFICATIONS

Operating temp. range	– 40 ∼ 85 °C		
Storage temp. range	- 40 ~ 00 0		
Sealing	Non washable		
Net weight	Approx. 1.4 g (CRFS-2202) Approx. 1.5 g (CRFS-2204) Approx. 1.9 g (CRFS-2302) Approx. 2.0 g (CRFS-2304)		

■ ELECTRICAL CHARACTERISTICS

Contact rating	Non-switching : DC50 V 100 mA Switching : DC12 V 100 mA Minimum : DC20 mV 1μA	
Contact timing	Non-shorting	
Contact resistance	70 mΩ maximum	
Insulation resistance	100 MΩ minimum (DC500 V)	
Dielectric strength	AC500 V, 60 s	

MECHANICAL CHARACTERISTICS

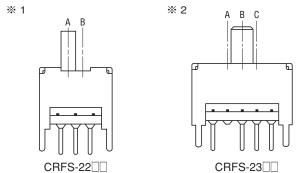
No. of positions	2, 3	
Stroke	2 mm	
	CFRS-22 □□	
Operating force	CFRS-23 □□	
Stop strength	30 N {3.06 kgf} 15 s	
Solderability	245 ± 3 °C 2 ~ 3 s	
Oaldaria - haat	Flow : 260 \pm 3 °C, 5 ~ 6 s, 2 times maximum	
Soldering heat	Manual soldering : 380 ± 10 °C, 3 ~ 4 s	

■ ENVIRONMENTAL CHARACTERISTICS

Vibration	Amplitude 1.5 mm or Acceleration 98 m/s², 10-500-10 Hz, 3 directions for 10 cycles each	
Shock	490 m/s², 11 ms, sinusoidal wave half cycle, 6 directions for 3 times each	
Load life	Continuous load 10000 cycles, DC12 \pm 0.5 V, 100 \pm 10 mA	
Humidity	40 °C, Relative humidity 90 ~ 95 %, 240 h, No load	
High temp. exposure	85 °C, 96 h, No load	
Low temp. exposure	–40 °C, 96 h, No load	
Thermal shock	-40 (0.5 h) ~ 85 °C (0.5 h), 5 cycles	

{ }: Reference only

■ HIGH FREQUENCY CHARACTERISTICS

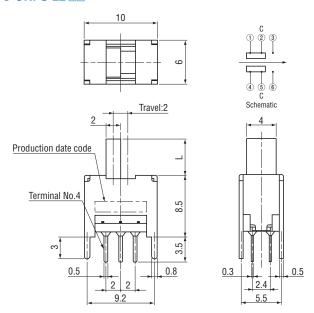


	CRFS-22 □□		CRFS-23 □□	
	770 MHz	1.0 GHz	770 MHz	1.0 GHz
Isolation between terminals	28 dB	26 dB	28 dB	26 dB
	minimum	minimum	minimum	minimum
Isolation between circuits	30 dB	28 dB	31 dB	29 dB
	minimum	minimum	minimum	minimum
Insertion loss	0.15 dB	0.23 dB	0.13 dB	0.17 dB
	maximum	maximum	maximum	maximum
VSWR	1.2	1.3	1.3	1.3
	maximum	maximum	maximum	maximum
Impedance	75 Ω			



OUTLINE DIMENSIONS

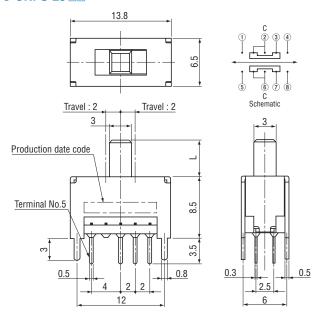
● CRFS-22 □□



Model number	L (mm)		
CRFS-2202	5		
CRFS-2204	10		

Unless otherwise specified, tolerance : \pm 0.3 (Unit : mm)

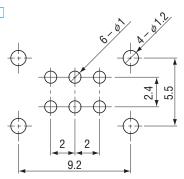
● CRFS-23 □□



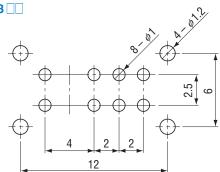
Model number	L (mm)
CRFS-2302	5
CRFS-2304	10

■ SIZE OF P.C.B. PROCESSING

● CRFS-22 □□



● CRFS-23 □□



(Unit:mm)

PACKAGING SPECIFICATIONS

<Tray packaging specifications>

- Tray version is packaged in 50 pcs. per tray. Orders will be accepted for units of 50 pcs., i. e., 50, 100, 150 pcs. etc.
- Tray version is boxed with 10 trays.

<Bulk pack specifications>

- The smallest unit of bulk in a plastic bag is 25 pcs. per pack. Orders will be accepted for unit of minimum 25 pcs., i.e., 25, 50, 75 pcs., etc.
- Boxing of bulk in a plastic bag is performed with 25 pcs. (standard 50 pcs.) per box.