



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!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



Product Standards

Rating	Operating temperature range	-25°C ~ 85°C	Storage temperature range	-25°C ~ 85°C
Item		Test Method (JIS C 5961)	Standard	
Optical Performance	Reflection attenuation	(SM)	1,300nm wavelength	22 dB or greater (PC), 40 dB (AdPC), 60 dB (Angled PC)
		(GI)		22 dB or greater (PC)
	Attenuation	(S grade)		Nominal value ±1.0 dB
		(A grade)		Nominal value ±1.5 dB
Mechanical performance	Coupling force and separation force (SC type)		Measure when connectors are coupled and separated in the direction of the axis.	Coupling force 19.6 N or less Separation force 19.6 N or less
	Split sleeve holding force of the adapter		φ2.499 ±0.0005-mm zirconia gauge	Phosphor bronze 2 to 5.9 N Zirconia @2 to 3.9 N
	Repetitive operation		500 times	1) The standard for attenuation after test must be satisfied. 2) No damage, cracks, or part looseness
	Vibration resistance		Vibration range of 10 to 55 Hz, in 3 directions, 3 hours each	
	Shock resistance		Acceleration of 981 m/s ² , in both directions along 3 axes, 3 times each (Total of 18 times)	
Environmental performance	Humidity resistance (Temperature and humidity cycle)		Temperature -10°C to 65°C, humidity 90 to 96% 10 cycles	No conspicuous corrosion
	Temperature cycle		Temperature -25°C to 70°C 100 cycles	
	Heat resistance		Leave for 500 hours at a temperature of 85°C	
	Cold resistance		Leave for 500 hours at a temperature of -25°C	
	Salt fog		Left in a 5% concentration of salt fog for 48 hours	

Materials

HRFC Plug Type

Part Name	Material	Notes
Coupling	Copper alloy	NTT FC corresponding item
Housing	Stainless steel	
Ferrule	Zirconia	
Split sleeve	Zirconia, copper alloy	

HRFC Plug Type

Part Name	Material	Notes
Housing	Polybutylene terephthalate	NTT FC corresponding item
Ferrule	Zirconia	
Split sleeve	Zirconia, copper alloy	

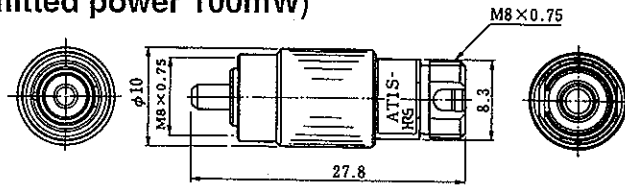
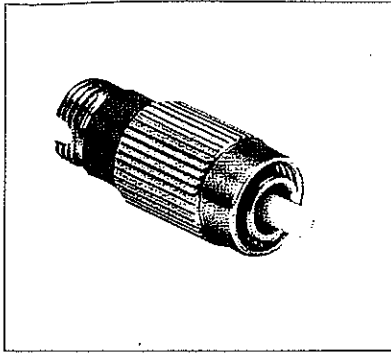
Structure of the Product Number

HSC - AT 1 S - A 03 S

① ② ③ ④ ⑤ ⑥ ⑦

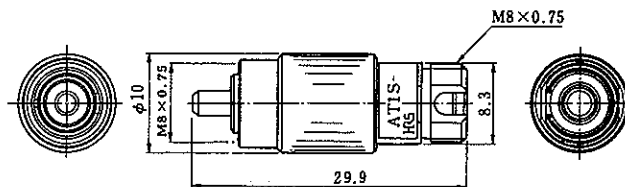
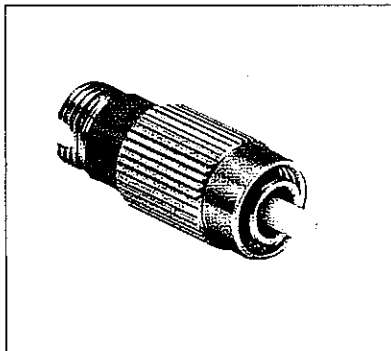
① Series name: H S C...Applicable to JIS C 5973 (F04) HRFC...Applicable to JIS C 5970 (F01)	⑤ Attenuation :
② Indicates an attenuator.	02..... 2dB
③ Specification : 1...Split sleeve made of copper alloy 4...Split sleeve made of zirconia 5...Copper alloy sleeve, cost effective type 8...Zirconia sleeve, cost effective type	03..... 3dB
④ Polishing : S...PC polishing (≥22 dB) K...AdPC polishing (≥40 dB) TS...angled physical contact polishing (≥60 dB)	05..... 5dB
⑤ Optical fiber : A...SM-9.5/125 B...GI-50/125 B...Doped fiber	07..... 7dB
	10.....10dB
	15.....15dB
	20.....20dB
	25.....25dB
	30.....30dB
	⑦ Attenuation tolerance : S.....±1dB
	A.....±1.5dB
	B.....±2dB

●FC-type Attenuators (maximum permitted power 100mW)



HRS No.	Product Number	Attenuation	Polishing form	Split Sleeve Specification	Reflection Attenuation	Notes		
820-0063-0	HRFC-AT1S-B05A	5dB	PC	≧22	10	GI-50/125		
820-0064-3	HRFC-AT1S-B10A	10dB						
820-0065-6	HRFC-AT1S-B15A	15dB						
820-0066-9	HRFC-AT1S-B20A	20dB						
820-0058-0	HRFC-AT1S-A05A	5dB				AdPC	≧40	SM-9.5/125
820-0060-2	HRFC-AT1S-A10A	10dB						
820-0061-5	HRFC-AT1S-A15A	15dB						
820-0062-8	HRFC-AT1S-A20A	20dB						
820-0067-1	HRFC-AT1K-A05A	5dB						
820-0068-4	HRFC-AT1K-A10A	10dB						
820-0069-7	HRFC-AT1K-A15A	15dB						
820-0070-6	HRFC-AT1K-A20A	20dB						

●VA-type FC-type Attenuators (maximum permitted power 10mW)



HRS No.	Product Number	Attenuation	Split Sleeve Specification	Reflection Attenuation	Notes
CL820-5000-8	HRFC-AT5S-A05A	5dB	Copper alloy	≧22dB	SM-9.5/125
CL820-5001-0	HRFC-AT5S-A10A	10dB			
CL820-5002-3	HRFC-AT5S-A15A	15dB			
CL820-5003-6	HRFC-AT5S-A20A	20dB			
CL820-5004-9	HRFC-AT5K-A05S	5dB			
CL820-5005-1	HRFC-AT5K-A10S	10dB			
CL820-5006-4	HRFC-AT5K-A15S	15dB		≧40dB	
CL820-5007-7	HRFC-AT5K-A20S	20dB			
CL820-5008-0	HRFC-AT5K-A05A	5dB			
CL820-5009-2	HRFC-AT5K-A10A	10dB			
CL820-5010-1	HRFC-AT5K-A15A	15dB			
CL820-5011-4	HRFC-AT5K-A20A	20dB			