

HF0218-64 series dual channel 18GHz high frequency rotary joint slip rings

2 channels, channel 1:DC~18GHz, channel 2:DC~4.5GHz,1~24 circuits signal(2A),OD 64mm

Senring HF0218-64 series RF rotary joint is used transmitting of analog and digital signals,RF Channel,can be customized to combine power/signal transmitting(6~24 wires),2.4(K)-F connector,stator flange installation.

Part No. Description

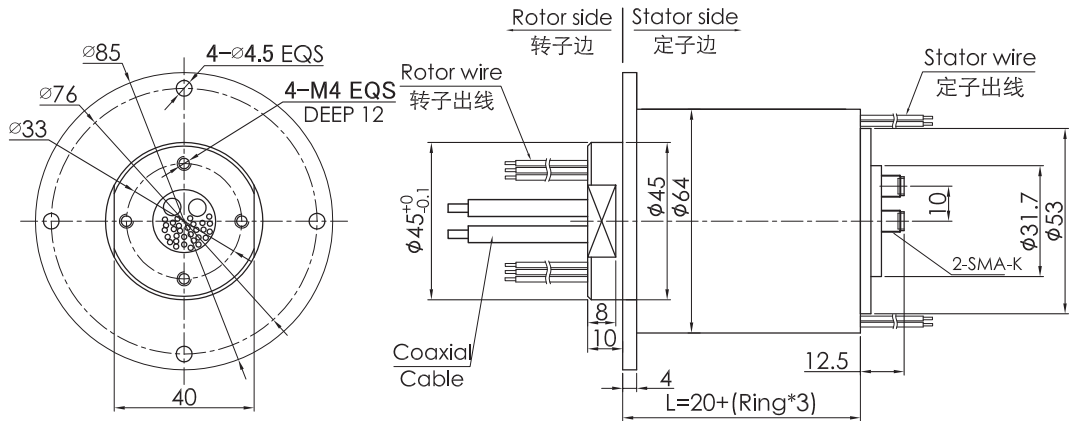
HF0218-64 - Power Circuits - Signal Circuits	
Dual Channel RF Rotary Joint Channel 1:DC~18GHz Channel 2:DC~4.5GHz OD 64mm	For example: 06S:6 circuits signal@2A 12S:12 circuits signal@2A For example: 0610:6 circuits@10A 1230:12 circuits@30A

Examples

HF0218-64: 2 channel RF rotary joint,channel 1: DC~18GHz,channel 2: DC~4.5GHz,OD 64mm;

HF0218-64-12S: 2 channel RF rotary joint+12 circuits signal@2A,channel 1: DC~18GHz,channel 2: DC~4.5GHz,OD 64mm;

HF0218-64-0610-12S: 2 channel RF rotary joint+6 circuits@10A+12 circuits signal@2A,channel 1: DC~18GHz,channel 2: DC~4.5GHz,OD 64mm;



Standard Model List

Model	ListRF Channel	Frequency	Circuits no. (10A)	Circuits no. (0~2A)	Length L(mm)
HF0218-64-0610	2 channels	DC~18GHz	6channels	0	32mm
HF0218-64-06S	2 channels	DC~18GHz	0	6channels	32mm
HF0218-64-12S	2 channels	DC~18GHz	0	12channels	44mm
HF0218-64-18S	2 channels	DC~18GHz	0	18channels	56mm
HF0218-64-24S	2 channels	DC~18GHz	0	24channels	68mm

Rotary joint Spec.

Rotary joint Spec.			
	channel 1		channel 2
Connector type	2.4(K)-F		2.4(K)-F
Style	I type		I type
Frequency	DC to 18 GHz		DC to 4 GHz
Peak power(max)	3000W		3000W
Average power(max)	50 W @ 18 GHz		50 W @ 4 GHz
VSWR(max)	1.2 @ 0 - 4 GHz		1.4 @ 0 - 2 GHz
	1.5 @ 4 - 18 GHz		2.5 @ 2 - 4 GHz
VSWR fluctuation(max)	0.04		0.36
Insertion loss	0.08 dB @ 4 GHz		0.48 dB @ 2 GHz
	0.48 dB @ 18 GHz		0.98 dB @ 4 GHz
Insertion loss fluctuation	0.05 dB		0.25 dB
Phase WOW (Max degree)	1 °		2 °
Isolation	60 dB		
Mechanical Spec.			
Rotating speed(max)	60RPM		Working life > 10 millions for ref (depends on working conditions)
Starting torque(max)	5N.cm		Rotating torque(max) 5N.cm
Temperature	-40 to +70°C(work temperature)		Humidity 85% (work humidity)
	-50 to +70°C(storage temperature)		95% (storage humidity)
IP grade	IP 60 per EN 60529		Insulating material PTFE

Electrical slip ring Spec.

Mechanical		Electrical		
		Spec.	Power	Signal
Working life	> 10 millions for ref (depends on working conditions)	Voltage range	0~440VAC/VDC	0~240VAC/VDC
Rotating speed	250RPM	Insulation resistance	≥500MΩ/500VDC	≥300MΩ/300VDC
Temperature	-30~80°C	Lead wire spec.	AWG#17 Silver-plated teflon	AWG#22 Silver-plated teflon
Humidity	0~85% RH			
Contact material	gold-gold	Lead wire length	standard 250mm(can be customized)	
Housing material	Aluminum alloy	Insulation resistance	300VAC@50Hz,60s	
Torque	0.05N.m+0.01N.m/6 channels	Electrical noise	< 0.01Ω	
IP grade	IP51			

Color Code of Lead Wire

ring #	1	2	3	4	5	6	7	8	9	10	11	12
color	BLK	BRN	RED	ORG	YEL	GRN	BLU	PUR	GRY	WHT	PINK	LGT BLU
ring #	13	14	15	16	17	18	19	20	21	22	23	24
color	WHT/BLK	WHT/BRN	WHT/RED	WHT/ORG	WHT/YEL	WHT/GRN	WHT/BLU	WHT/PUR	WHT/GRY	BLK/RED	BLK/BRN	Transparent

Remark: "1" : the first wire from rotor side , HF0218-64-12S wire color sequence: BLK/BRN/RED/ORG/YEL/GRN/BLU/PUR/GRY/WHT/PINK/LGT BLU , 24 color wires as one group , if more than 24wires, repeat as sequence , use number tube to tell group 1#, 2#....