

Wilkinson power splitter specification

PN:SPx-538-yy (xx=split path, yy=connector type)

- . Multiple-Band Freq 555, 700, 850, 900, PCS, UMTS, WCS
- . Minimal RF Insertion Loss
- . High Reliability, IP65
- . Guaranteed Low PIM
- . RoHS Compliant

1. Electric performance

	2 Way	3 Way	4 Way
PN	SP2-638-NF-M	SP3-638-NF-M	SP4-638-NF-M
	SP2-638-MF-M	SP3-638-MF-M	SP4-638-MF-M
Frequency	555 –3800 MHz	555 –3800 MHz	555 –3800 MHz
Split Loss	3.0 dB	4.8 dB	6.0 dB
Insertion Loss	0.5dB@555-2700	0.6dB @ 555–2700	0.6 dB@555–2700
	0.7dB@2700-3800	1.0 dB @ 2700–3800	1.0 dB @ 2700–3800
Isolation	16 dB@555-698	16 dB @ 555–698	16 dB @ 555–698
	18 dB@698-3800	18 dB @ 698–3800	18 dB @ 698–3800
PIM 2X43dBm	- 153dBc	- 153dBc	- 153dBc
	- 160dBc typical	- 160dBc typical	- 160dBc typical
VSWR	1.60:1@555-698	1.60:1@555-698	1.60:1@555-698
	1.30:1@698-3800	1.30:1@698-3800	1.30:1@698-3800
Power average	80W (split)	80W (split)	80W (split)
	1W (combine)	1W (combine)	1W (combine)
Power peak	800W (split)	800W (split)	800W (split)
	10W (combine)	10W (combine)	10W (combine)
DC pass/block	Pass(current 2A)		
Impedance	50 ohm		

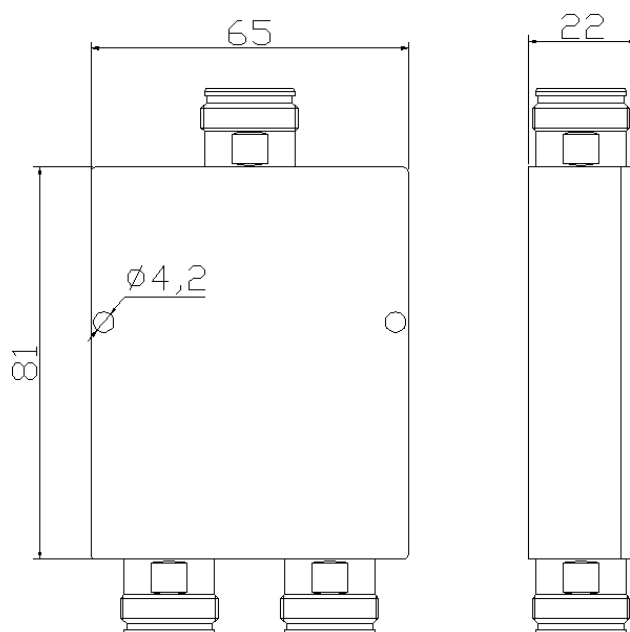
2. Environment

Waterproof	IP65	
Work temp	-40-75°C	
store temp	-50-85°C	
Work Humidity	<95%	
Work Altitude	<5000m	
Salt fog	168 hours	
ROHS	compliant	

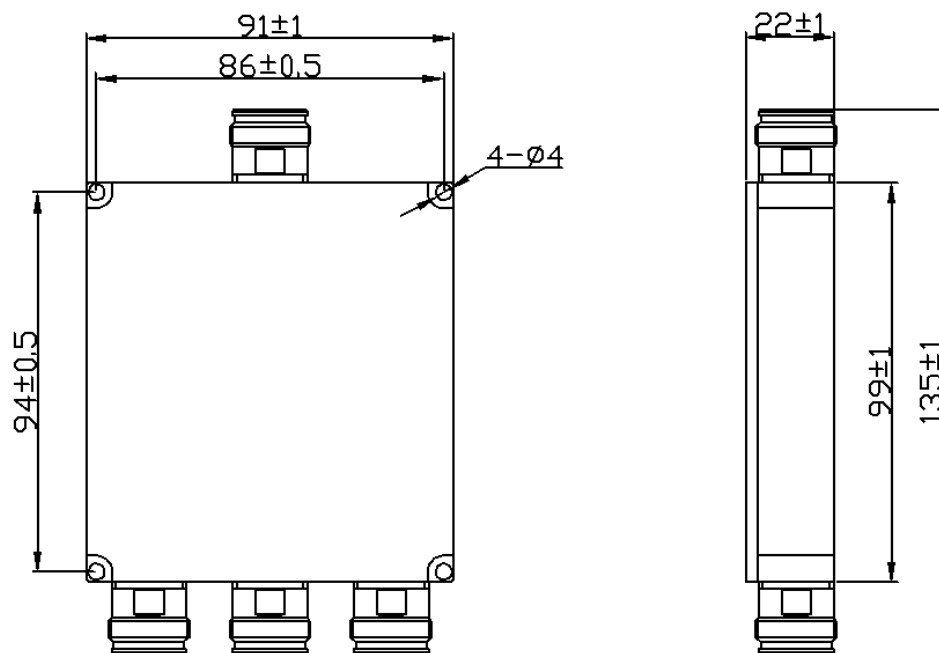
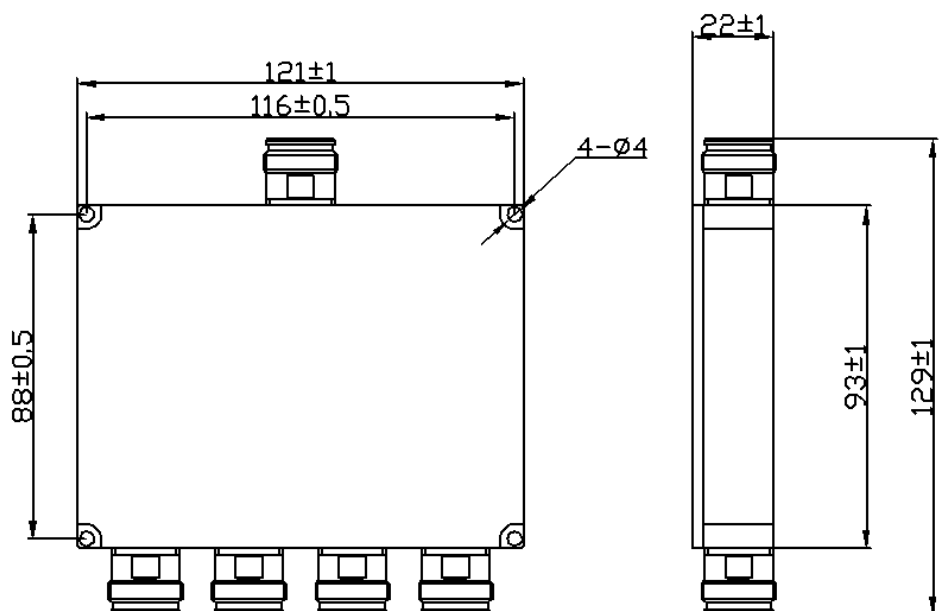
3. Mechanical

Connector type	Option: N(f) 4.3/10(f)	
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Connector material	Body: brass+ COPPER-TIN-ZINC2μm Inner conductor: beryllium copper+Ag 3um Insulator:PTFE	
Surface	Grey powder	Customized Colors
Thermal shock	IEC 60068-2-14-Na	
Vibration	IEC 60068-2-6-Fc	
Shock	IEC 60068-2-27	
Mounting	Wall, bracket	M3 bolt
Unit Dimension	2 way: 81X65X22mm 3 way: 99X91X22mm 4 way: 93X121X22mm	See below
Unit Package	2 way: 12X8X4cm 3 way: 15X10X4cm 4 way: 12X14X4cm	
Unit Weight	2 way: 200g 3 way: 300g 4 way: 400g	
Carton qty	20 pcs/box	
Carton dimension	35X30X20CM	
Carton weight	6Kg	
Connector torque	N: 1.36 N/m 4.3/10: 1.36 N/m	Recommend



2 Way splitter

**3 Way splitter****4 Way splitter**