

## Specifications for RF Splitters, Directional Coupler and Filters

### 1. 4-Way RF Power Splitter/Combiner, (ZBSC-413+ or equivalent):

**Qty: 20 Nos.**

S.No.	Parameter	
1	Frequency range	10 MHz to 700 MHz or more
2	Maximum input power	$\geq 1$ W
3	Insertion loss	$\leq 2.0$ dB (above 6 dB)
4	Isolation	$\geq 15$ dB
5	Impedance	50 $\Omega$
6	Temperature range	10 °C to 50 °C or more
7	Connector	SMA female

### 2. 2-Way RF Power Splitter/Combiner, (ZFSC-2-372+(with option B) or equivalent):

**Qty: 20 Nos.**

S.No.	Parameter	
1	Frequency range	10 MHz to 3 GHz or more
2	Maximum input power	$\geq 1$ W
3	Insertion loss	$\leq 1.6$ dB (above 3 dB)
4	Isolation	$\geq 13$ dB
5	Impedance	50 $\Omega$
6	Temperature range	10 °C to 50 °C or more
7	Connector	SMA female

*Note:* Item should have provision of Bracket for mounting purpose.

### 3. 8-Way RF Power Splitter/Combiner, (ZFSC-4-s+ or equivalent):

**Qty: 10 Nos.**

S.No.	Parameter	
1	Frequency range	5 MHz to 700 MHz or more
2	Maximum input power	$\geq 1$ W
3	Insertion loss	$\leq 2.5$ dB (above 9 dB)
4	Isolation	$\geq 17$ dB
5	Impedance	50 $\Omega$
6	Temperature range	10 °C to 50 °C or more
7	Connector	SMA female

**4. Directional coupler (ZFDC-20-4l or equivalent):****Qty.10**

S.No.	Parameter	
1	Frequency range	10 MHz to 1000 MHz or more
2	Coupling	$\geq 19\text{dB}$
3	Insertion loss	$\leq 1.2 \text{ dB}$
4	Directivity	$\geq 14 \text{ dB}$
5	Impedance	$50\Omega$
6	Temperature range	$10\text{ }^{\circ}\text{C}$ to $50\text{ }^{\circ}\text{C}$ or more
7	Connector	SMA female

**5. Band Pass Filter 31 MHz (SBP-30+ or equivalent)****Qty: 20**

S. No.	Parameter	
1	Passband	27 -33 MHz or more
2	Insertion Loss in passband	$\leq 1.5\text{dB}$
3	VSWR in pass band	$\leq 1.7$
4	Stop Band Inerion Loss (at 22 and 40 Mhz)	$\geq 20\text{dB}$
5	Impedance	50 Ohm
6	Connector Type	SMA M/F
7	Maximum RF power Input	$\geq 25\text{dBm}$

**6. Band Pass Filter 23 MHz (SBP-21.4+ or equivalent)****Qty: 20**

S. No.	Parameter	
1	Passband	20 -23 MHz or more
2	Insertion Loss in passband	$\leq 1.5\text{dB}$
3	VSWR in pass band	$\leq 1.7$
4	Stop Band Inerion Loss (at 15 and 29 Mhz)	$\geq 20\text{dB}$
5	Impedance	50 Ohm
6	Connector Type	SMA M/F
7	Maximum RF power Input	$\geq 25\text{dBm}$

**Note:**

1. The vendor should clearly specify name of the manufacturer of the items with model number.
2. Supplier should provide detailed specification sheet along with the offer.
3. Materials shall be supplied in original manufacturer package.

4. Note: “ In the event of an order on suppliers registered in MP VAT will be deducted at source and TDS certificate will be furnished by the paying authority as per MP VAT Act 2002 Amended on 05.04.2016 and 23.02.2017”