

**Department of Electrical Engineering
Indian Institute of Technology, Kanpur**

Enquiry No.: EE/KVS/07AUG2015/1

Opening Date: 10/08/2015

Closing Date: 24/08/2015

Sub: Purchase of High Frequency Components and Flexible Cables

We are looking to procure high frequency components and flexible coaxial cables .

List of components with their specifications-

1) Flexible Coaxial Cable

- a) Frequency Range: DC to 18GHz
- b) Length:36 inch
- c) Insertion Loss:
DC -6GHz: less than 1.5dB(typ.)
6-18GHz: less than 2.5dB(typ.)
- d) Return Loss:
DC -6GHz: more than 30dB(typ.)
6-18GHz:more than 20dB(typ.)
- e) Connector type: SMA
- f) Quantity:10No

2) Flexible Coaxial Cable

- a) Frequency Range: DC to 18GHz
- b) Length:12 inch
- c) Insertion Loss:
DC -6GHz:less than 1.5dB(typ.)
6-18GHz :less than 2.5dB(typ.)
- d) Return Loss:
DC -6GHz :more than 30dB(typ.)
6-18GHz :more than 20dB(typ.)
- e) Connector type:SMA
- f) Quantity:10No

3) Frequency Mixer

- a) Frequency Range: 800MHz-2.4GHz
- b) Conversion loss:less than 8dB(typ.)
- c) LO/RF isolation: more than 20 dB (typ.)
- d) RF Power: 50mW(typ.)
- e) LO Power:7dBm(typ.)
- f) Connector Type:SMA
- g) Quantity:2No

4) Frequency Mixer

- a) Frequency Range: 2GHz-6GHz
- b) Conversion loss: less than 8dB(typ.)
- c) LO/RF isolation: more than 20 dB (typ.)
- d) RF Power: 50mW(typ.)
- e) LO Power:7dBm(typ.)
- f) Connector Type: SMA
- g) Quantity:2No

5) Band Pass Filter

- a) Center Frequency: 1.8GHz
- b) Bandwidth:100MHz
- c) Insertion Loss(In Band): less than 3dB(typ.)
Insertion Loss(Out of Band): more than 20dB(typ.)
- d) Return loss(In band): more than 10 dB(typ.)
Return loss(out of band): less than 3dB(typ.)
- e) Connector Type:SMA
- f) Quantity:2No

6) Band Pass Filter

- a) Center Frequency: 2 GHz
- b) Band Width:300MHz
- c) Insertion Loss(In Band): less than 3dB(typ.)
Insertion Loss(Out of Band): more than 20dB(typ.)
- d) Return loss(In band): more than 10 dB(typ.)
Return loss(out of band): less than 3dB(typ.)
- e) Connector type-:SMA
- f) Quantity:2No

7) Band Pass Filter

- a) Center Frequency: 2.4 GHz
- b) Band Width:200MHz
- c) Insertion Loss(In Band): less than 3dB(typ.)
Insertion Loss(Out of Band): more than 20dB(typ.)
- d) Return loss(In band): more than 10 dB(typ.)
Return loss(out of band): less than 3dB(typ.)
- e) Connector type-:SMA
- f) Quantity:2No

8) Amplifier

- a) Frequency Range: 800MHz-2.4GHz
- b) Gain: more than 15dB(typ.)
- c) 1dB compression Point: +10dBm(typ.)
- d) VSWR:less than 1.5(typ.)
- e) Connector type:SMA
- f) Quantity:2No

9) Adapter

- a) Frequency Range: DC-6GHz
- b) Insertion Loss:
DC -6GHz :less than 0.1dB(typ.)

- c) Return loss: more than 15dB(typ.)
- d) Connector type: N Female-N Female
- e) Quantity:6No

10) Adapter

- a) Frequency: DC to 18GHz
- b) Connector type : SMA Male to SMA Female
- c) Impedance:50 ohm
- d) Styl :Right Angle(90 degree)
- e) Quantity:6No

11) Isolator

- a) Frequency: 2.4GHz
- b) Isolation: more than 15dB(typ.)
- c) Insertion loss:less than 1.5dB(typ.)
- d) Power:more than 20dBm(typ.)
- e) Connector type:SMA
- f) Quantity:2No

12) Circulator

- a) Frequency: 2.4GHz
- b) Isolation: more than 15dB(typ.)
- c) Insertion loss:less than 1.5dB(typ.)
- d) Power:more than 20dBm(typ.)
- e) Connector type:SMA
- f) Quantity:2No

Note:

1. All quotation in sealed envelope must reached undersigned on or before.
2. Quotation must be valid for 60 days.
3. Delivery Period should not be more than 6 weeks.
4. Send the complete details of the product.
5. IIT Kanpur is exempted from excise/custom duty.

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