

- **Model:** HXLBQ-DTA1365
- **Product Name:** Cavity Band Pass Filter
- **Frequency:** 19.9~20.1GHz

- ★ High Stop Band Rejection
- ★ Low Pass Band Insertion Loss
- ★ Customizable Design
- ★ High Reliability

### Technical Data Sheet

| Item                       | Parameters                                                                     |                         |
|----------------------------|--------------------------------------------------------------------------------|-------------------------|
| ● Center Frequency(F0)     | 20GHz                                                                          |                         |
| ● Pass Band Frequency      | 19.9 ~ 20.1GHz                                                                 |                         |
| ● Pass Band Insertion Loss | ≤1.3dB                                                                         |                         |
| ● Pass Band Ripple         | ≤0.2dB                                                                         |                         |
| ● Pass Band Return Loss    | ≥23dB                                                                          |                         |
| ● Stop Band Rejection      | ≥80dB @ DC ~ 19.15GHz                                                          | ≥70dB @ 20.7 ~ 20.85GHz |
|                            | ≥70dB @ 19.15 ~ 19.3GHz                                                        | ≥80dB @ 20.85 ~ 40GHz   |
| ● Impedance                | 50 Ohms                                                                        |                         |
| ● Power Handling           | 5.0W Max.                                                                      |                         |
| ● Connectors               | SMA-Female                                                                     |                         |
| ● Surface Finish           | Painted Black                                                                  |                         |
| ● Temperature Range        | -30°C ~ +70°C                                                                  |                         |
| ● Net weight               | 0.06 KG                                                                        |                         |
| ● Group Delay Ripple       | ≤0.4ns @ peak-peak within any 66MHz interval , in the range of 19.9 ~ 20.1GHz  |                         |
|                            | ≤0.4ns @ peak-peak within any 200MHz interval , in the range of 19.9 ~ 20.1GHz |                         |

Note: The actual design bandwidth will be greater than the Pass Band Frequency, and there is no bandwidth limit.

### ● Outline Drawing: (Dimensions Unit: mm, Dimensions Tolerance: ±0.4mm)

- |                   |                                  |                               |
|-------------------|----------------------------------|-------------------------------|
| ◆ <b>Material</b> | ● Housing: H62 Copper alloy      | ● Connectors: Stainless Steel |
|                   | ● Cover: H62 Copper alloy        | ● Working Environment: Indoor |
|                   | ● Tuning screw: H62 Copper alloy | ● Dimensions: 60*16*12mm      |

