

# MINIBEND R-7HT, SMA (male), SMA (male), ruggedized, lead-free solder, 50 Ohm, 24 GHz, 7 in, 177.8 mm

## MINIBEND R-7HT

### Properties

- Applicable up to 24 GHz
- Part of the "bend-to-the-end" MINIBEND product family
- Direct replacement for 086 size Semi-Rigid cables
- Solderless cable junction
- Compliant to MIL-DTL-17 (cable) and MIL-PRF-39012 (connectors)
- Lead-free solder for RoHS compliance



### Product configuration

|                              |                      |
|------------------------------|----------------------|
| Type of cable                | MINIBEND (32081E)    |
| Type description connector A | 29094HTCR-32-81      |
| Series connector A           | SMA, straight - plug |
| Type description connector B | 29094HTCR-32-81      |
| Series connector B           | SMA, straight - plug |
| Length                       | 177.8 mm             |
| Length                       | 7 inch               |
| Length type                  | REF to REF           |

### Electrical data

|                          |             |
|--------------------------|-------------|
| Impedance                | 50 $\Omega$ |
| Max. operating frequency | 24 GHz      |
| VSWR max                 | 1.4         |
| Propagation velocity     | 70 %        |

### Electrical Data (frequency related)

| Frequency range     | Return loss | VSWR max | Insertion loss |
|---------------------|-------------|----------|----------------|
| 0 GHz ... 2 GHz     | 20.82 dB    | 1.2      | 0.32 dB        |
| 2 GHz ... 12.4 GHz  | 19.08 dB    | 1.25     | 0.74 dB        |
| 12.4 GHz ... 18 GHz | 16.53 dB    | 1.35     | 0.95 dB        |
| 18 GHz ... 24 GHz   | 15.56 dB    | 1.4      | 1.1 dB         |

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| Mechanical data        |                   |
|------------------------|-------------------|
| Cable diameter         | 2.54 mm           |
| Static bending radius  | 5.08 mm           |
| Dynamic bending radius | 15.24 mm          |
| Environmental data     |                   |
| Operation temperature  | -55 °C ... 125 °C |
| Ordering information   |                   |
| Item number            | Item description  |
| 80362318               | MINIBEND R-7HT    |

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DOCUMENT PIM-P38173 / Date of publication: 04.12.2024 / uncontrolled copy