

# HFA3102B96

Quote

#### HFA3102B96 Information

| venicies      | Part Number<br>Manufacturer<br>Category<br>Description<br>Package | Discrete Semiconductor Products<br>Transistors - Bipolar (BJT) - RF<br>IC TRANS ARRAY DUAL NPN 14-SOIC<br>14-SOIC (0.154", 3.90mm Width)<br>For the pricing/inventory/lead time, please contact |           |
|---------------|---|---|-----------|
| For Reference | ee Only   | us<br>Website: https://www.heisener.com<br>E-mail: salesdept@heisener.com   | Request a |

## **Certified Quality**

Heisener's commitment to quality has shaped our processes for sourcing, testing, shipping, and every step in between. This foundation underlies each component we sell.



### HFA3102B96 Specifications

| Manufacturer Part NumberHFA 3102B96ManufacturerIntersilCategoryDiscrete Semiconductor ProductsTransistors - Bipolar (BJT) - RFPackage14-SOIC (0.154", 3.90mm Width)Series-Transistor Type6 NPNVoltage - Collector Emitter Breakdown (Max)12VFrequency - Transition10GHzNoise Figure (dB Typ @ f)1.8dB ~ 2.1dB @ 500MHz ~ 1GHzGain12.4dB ~ 17.5dBPower - Max250mWDC Current Gain (hFE) (Min) @ Ic, Vce40 @ 10mA, 3VCurrent - Collector (L) (Max)30mAOperating TemperatureSurface MountMounting TypeSurface MountPackage / Case14-SOIC (0.154", 3.90mm Width)                 |   |                                  |
|---|---|----------------------------------|
| Initial Initial   Category Discrete Semiconductor Products   Transistors - Bipolar (BJT) - RF   Package 14-SOIC (0.154", 3.90mm Width)   Series -   Transistor Type 6 NPN   Voltage - Collector Emitter Breakdown (Max) 12V   Frequency - Transition 10GHz   Noise Figure (dB Typ @ f) 1.8dB ~ 2.1dB @ 500MHz ~ 1GHz   Gain 12.4dB ~ 17.5dB   Power - Max 250mW   DC Current Gain (hFE) (Min) @ Ic, Vce 40 @ 10mA, 3V   Current - Collector (Ic) (Max) 30mA   Operating Temperature 50°C (TJ)   Mounting Type Surface Mount   Package / Case 14-SOIC (0.154", 3.90mm Width) | Manufacturer Part Number                    | HFA3102B96                       |
| Transistors - Bipolar (BJT) - RF   Package 14-SOIC (0.154", 3.90mm Width)   Series -   Transistor Type 6 NPN   Voltage - Collector Emitter Breakdown (Max) 12V   Frequency - Transition 10GHz   Noise Figure (dB Typ @ f) 1.8dB ~ 2.1dB @ 500MHz ~ 1GHz   Gain 12.4dB ~ 17.5dB   Power - Max 250mW   OC Current Gain (hFE) (Min) @ Ic, Vce 40 @ 10mA, 3V   Operating Temperature 150°C (TJ)   Mounting Type Surface Mount   Package / Case 14-SOIC (0.154", 3.90mm Width)   | Manufacturer                                | Intersil                         |
| Package14-SOIC (0.154", 3.90mm Width)Series-Transistor Type6 NPNVoltage - Collector Emitter Breakdown (Max)12VFrequency - Transition10GHzNoise Figure (dB Typ @ f)1.8dB ~ 2.1dB @ 500MHz ~ 1GHzGain12.4dB ~ 17.5dBPower - Max250mWDC Current Gain (hFE) (Min) @ Ic, Vce40 @ 10mA, 3VCurrent - Collector (Ic) (Max)30mAOperating Temperature150°C (TJ)Mounting TypeSurface MountPackage / Case14-SOIC (0.154", 3.90mm Width)   | Category                                    | Discrete Semiconductor Products  |
| Series-Transistor Type6 NPNVoltage - Collector Emitter Breakdown (Max)12VFrequency - Transition10GHzNoise Figure (dB Typ @ f)1.8dB ~ 2.1dB @ 500MHz ~ 1GHzGain12.4dB ~ 17.5dBPower - Max250mWDC Current Gain (hFE) (Min) @ Ic, Vce40 @ 10mA, 3VCurrent - Collector (Ic) (Max)30mAOperating Temperature150°C (TJ)Mounting TypeSurface MountPackage / Case14-SOIC (0.154", 3.90mm Width)  |   | Transistors - Bipolar (BJT) - RF |
| Transistor Type6 NPNVoltage - Collector Emitter Breakdown (Max)12VFrequency - Transition10GHzNoise Figure (dB Typ @ f)1.8dB ~ 2.1dB @ 500MHz ~ 1GHzGain12.4dB ~ 17.5dBPower - Max250mWDC Current Gain (hFE) (Min) @ Ic, Vce40 @ 10mA, 3VCurrent - Collector (Ic) (Max)30mAOperating Temperature150°C (TJ)Mounting TypeSurface MountPackage / Case14-SOIC (0.154", 3.90mm Width)   | Package                                     | 14-SOIC (0.154", 3.90mm Width)   |
| Voltage - Collector Emitter Breakdown (Max)12VFrequency - Transition10GHzNoise Figure (dB Typ @ f)1.8dB ~ 2.1dB @ 500MHz ~ 1GHzGain12.4dB ~ 17.5dBPower - Max250mWDC Current Gain (hFE) (Min) @ Ic, Vce40 @ 10mA, 3VCurrent - Collector (Ic) (Max)30mAOperating Temperature150°C (TJ)Mounting TypeSurface MountPackage / Case14-SOIC (0.154", 3.90mm Width)Supplier Device Package14-SOIC   | Series                                      | -                                |
| Frequency - Transition 10GHz   Noise Figure (dB Typ @ f) 1.8dB ~ 2.1dB @ 500MHz ~ 1GHz   Gain 12.4dB ~ 17.5dB   Power - Max 250mW   DC Current Gain (hFE) (Min) @ Ic, Vce 40 @ 10mA, 3V   Current - Collector (Ic) (Max) 30mA   Operating Temperature 150°C (TJ)   Mounting Type Surface Mount   Package / Case 14-SOIC (0.154", 3.90mm Width)  | Transistor Type                             | 6 NPN                            |
| Noise Figure (dB Typ @ f)1.8dB ~ 2.1dB @ 500MHz ~ 1GHzGain12.4dB ~ 17.5dBPower - Max250mWDC Current Gain (hFE) (Min) @ Ic, Vce40 @ 10mA, 3VCurrent - Collector (Ic) (Max)30mAOperating Temperature150°C (TJ)Mounting TypeSurface MountPackage / Case14-SOIC (0.154", 3.90mm Width)Supplier Device Package14-SOIC  | Voltage - Collector Emitter Breakdown (Max) | 12V                              |
| Gain12.4dB ~ 17.5dBPower - Max250mWDC Current Gain (hFE) (Min) @ Ic, Vce40 @ 10mA, 3VCurrent - Collector (Ic) (Max)30mAOperating Temperature150°C (TJ)Mounting TypeSurface MountPackage / Case14-SOIC (0.154", 3.90mm Width)Supplier Device Package14-SOIC  | Frequency - Transition                      | 10GHz                            |
| Power - Max250mWDC Current Gain (hFE) (Min @ Ic, Vce40 @ 10mA, 3VCurrent - Collector (Ic) (Max)30mAOperating Temperature150°C (TJ)Mounting TypeSurface MountPackage / Case14-SOIC (0.154", 3.90mm Width)Supplier Device Package14-SOIC  | Noise Figure (dB Typ @ f)                   | 1.8dB ~ 2.1dB @ 500MHz ~ 1GHz    |
| DC Current Gain (hFE) (Min) @ Ic, Vce40 @ 10mA, 3VCurrent - Collector (Ic) (Max)30mAOperating Temperature150°C (TJ)Mounting TypeSurface MountPackage / Case14-SOIC (0.154", 3.90mm Width)Supplier Device Package14-SOIC   | Gain  | 12.4dB ~ 17.5dB                  |
| Current - Collector (Ic) (Max)30mAOperating Temperature150°C (TJ)Mounting TypeSurface MountPackage / Case14-SOIC (0.154", 3.90mm Width)Supplier Device Package14-SOIC   | Power - Max                                 | 250mW                            |
| Operating Temperature150°C (TJ)Mounting TypeSurface MountPackage / Case14-SOIC (0.154", 3.90mm Width)Supplier Device Package14-SOIC   | DC Current Gain (hFE) (Min) @ Ic, Vce       | 40 @ 10mA, 3V                    |
| Mounting TypeSurface MountPackage / Case14-SOIC (0.154", 3.90mm Width)Supplier Device Package14-SOIC  | Current - Collector (Ic) (Max)              | 30mA                             |
| Package / Case14-SOIC (0.154", 3.90mm Width)Supplier Device Package14-SOIC  | Operating Temperature                       | 150°C (TJ)                       |
| Supplier Device Package 14-SOIC   | Mounting Type                               | Surface Mount                    |
|   | Package / Case                              | 14-SOIC (0.154", 3.90mm Width)   |
| Report errors?  | Supplier Device Package                     | 14-SOIC                          |
|   |   | Report errors?                   |

#### HFA3102B96 Guarantees



Quality Guarantees

We provide 90 days warranty. \* If the items you received were not in perfect quality, we would be responsible for your refund or replacement, but the items must be returned in their original condition.

# SERVICE BUARANTEE

#### **Service Guarantees**

We guarantee 100% customer satisfaction. Our experienced sales team and tech support team back our services to satisfy all our customers.

# HFA3102B96 Payment Methods



# HFA3102B96 Shipping Methods



If you have any question about HFA3102B96, please do not hesitate to contact us! Website: https://www.heisener.com E-mail: salesdept@heisener.com