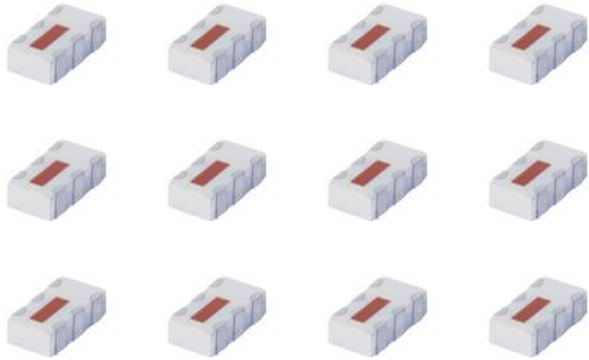




## DESIGNER'S KIT K1-QCN+

# 2WAY-90° Power Splitter/Combiners

50Ω 220 to 4500 MHz



### FEATURES

- Wideband, 50Ω,
- Low insertion loss, 0.4 dB typical
- High isolation up to 32 dB typical
- Wrap-around terminals for excellent solderability
- Ultra small ceramic cases,  
(L) 0.12" x (W) 0.60" x (H) 0.35"

MINI-CIRCUITS DESIGNER'S KITS  
**SPEED UP**  
THE SOLUTION



### K1-QCN+ ELECTRICAL SPECIFICATIONS

(10 models, 2 of each, 20 total)

| Model    | Frequency (MHz) |      | Isolation (dB) |      | Insertion Loss (dB)<br>Above 3.0dB |      | Phase Unbalance (Degrees) | Amplitude Unbalance (dB) | Input Power (W)<br>(as a splitter) |
|----------|-----------------|------|----------------|------|------------------------------------|------|---------------------------|--------------------------|------------------------------------|
|          | Low             | High | Typ.           | Min. | Typ.                               | Max. | Max.                      |                          | Max.                               |
| QCN-3+   | 220             | 470  | 24             | 18   | 0.6                                | 0.8  | 8                         | 1.3                      | 15                                 |
| QCN-5+   | 330             | 580  | 20             | 14   | 0.3                                | 0.6  | 8                         | 1.3                      | 15                                 |
| QCN-7+   | 425             | 675  | 17             | 11   | 0.4                                | 0.7  | 8                         | 1.0                      | 15                                 |
| QCN-12+  | 800             | 1375 | 19             | 14   | 0.4                                | 0.8  | 12                        | 0.9                      | 15                                 |
| QCN-12A+ | 800             | 1250 | 17             | 13   | 0.3                                | 0.7  | 5                         | 0.8                      | 15                                 |
| QCN-19+  | 1100            | 1925 | 25             | 19   | 0.4                                | 0.9  | 4                         | 1.1                      | 15                                 |
| QCN-25+  | 1350            | 2450 | 25             | 18   | 0.4                                | 0.9  | 5                         | 1.1                      | 15                                 |
| QCN-27+  | 1700            | 2700 | 26             | 18   | 0.4                                | 0.9  | 6                         | 1.0                      | 15                                 |
| QCN-34+  | 2500            | 3400 | 32             | 20   | 0.4                                | 0.7  | 4                         | 1.2                      | 15                                 |
| QCN-45+  | 2500            | 4500 | 19             | 15   | 0.5                                | 0.8  | 6                         | 2.5                      | 15                                 |

Patent Pending

