

# Power Splitter/Combiner

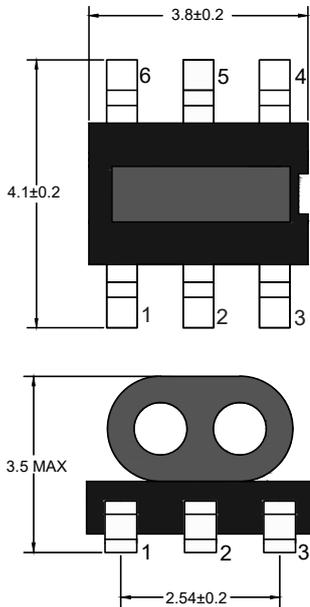
## AWK1007-C068331



75Ω 2 Way-0° Power Divider

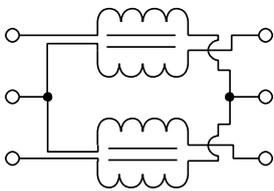
5-2150MHz

### Outline Drawing(mm)

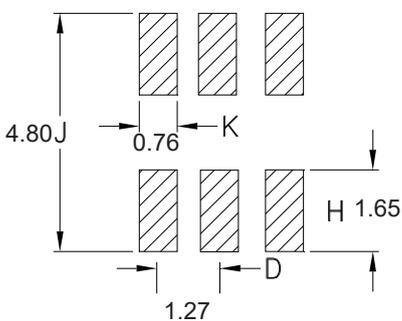


### Electrical structure

Fig K



### Recommended layout(mm)



### Pin Connections

|                                 |     |
|---------------------------------|-----|
| SUM PORT                        | 4   |
| PORT 1                          | 6   |
| PORT 2                          | 1   |
| GROUND                          | 3   |
| External 0.5pf Capacitor Ground | 2,5 |

### Features

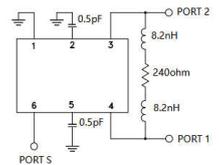
- Operating temperature range: -40°C to +85°C
- Storage temperature range: -55°C to +100°C
- 260°C Reflow Compatible
- RoHS compliant and lead free
- DC Current: 500mA Max
- Input Power: 500mW Max

### Applications

- For Docusis 3.0 & 3.1 Cable Modem.
- For Wideband Push-pull Amplifiers.
- For CATV Amplifiers Module & Set top box.
- For CATV Optical Receivers and Amplifiers.
- For VHF/UHF Transmitters and Push-pull Amplifiers.

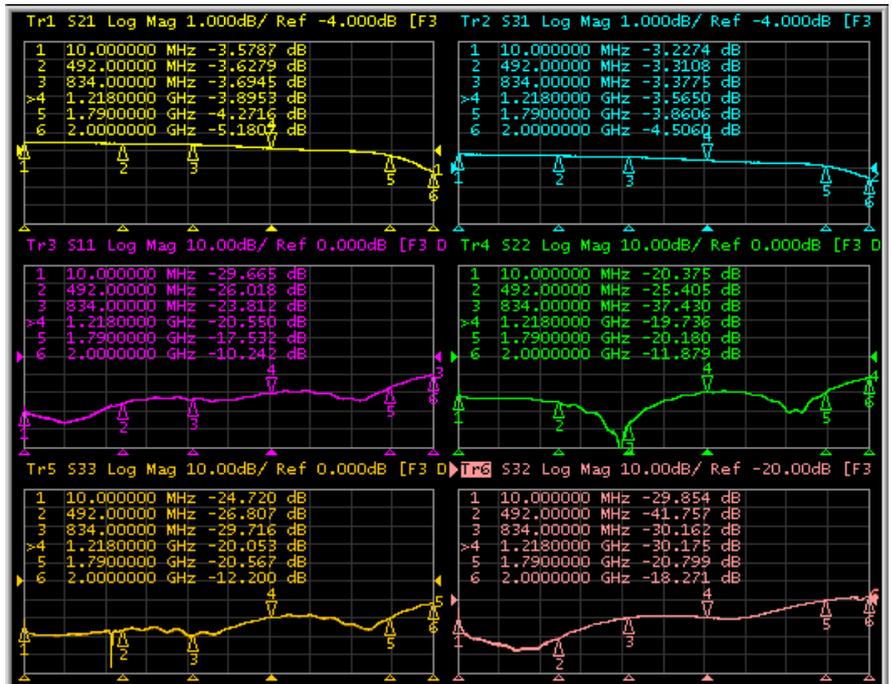


### Application circuit :

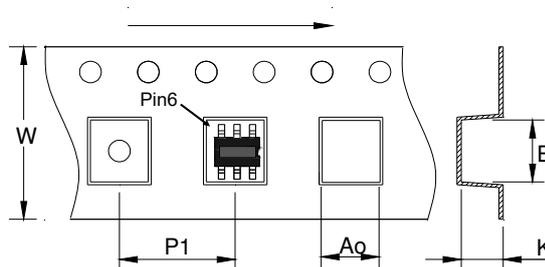


### Electrical Specifications: TA=25°C, 0dBm, Z0=75Ω

| Parameter               | Test Conditions | Units | Min  | Typ  | Max |
|-------------------------|-----------------|-------|------|------|-----|
| Main line Loss (Pin4-6) | 5-2150MHz       | dB    | —    | 2.0  | 2.8 |
| Main line Loss (Pin4-1) | 5-2150MHz       | dB    | —    | 3.0  | 4.5 |
| Input Return Loss       | 5-2150MHz       | dB    | 14.0 | 20.0 | —   |
| Output Return Loss 1    | 5-2150MHz       | dB    | 16.0 | 22.0 | —   |
| Output Return Loss 2    | 5-2150MHz       | dB    | 10.0 | 16.0 | —   |
| Isolation               | 5-2150MHz       | dB    | 16.0 | 25.0 | —   |



### Carrier Tape Orientation



### Tape & Reel Information

| Parameter    | Units | Value |
|--------------|-------|-------|
| Qty per reel | PCS   | 2000  |
| Reel Size    | mm    | 330   |
| Tape Width   | mm    | 12.00 |
| Pitch        | mm    | 8.00  |
| Ao           | mm    | 4.30  |
| Bo           | mm    | 4.20  |
| Ko           | mm    | 3.50  |

