

**D311xx24-V02**  
**Directional Coupler 4.3-10**  
**PIM -160dBc**  
**698-4000**



**Directional Coupler 690-4000**

**Preliminary**

| Type                | D3110524-v02 | D3110624-v02 | D3110724-v02 | D3110824-v02 |
|---------------------|--------------|--------------|--------------|--------------|
| Coupling Value (dB) | 5            | 6            | 7            | 8            |
| Coupling Bias (dB)  | ±1.0         | ±1.0         | ±1.0         | ±1.2         |
| Insertion Loss (dB) | ≤2.4         | ≤1.8         | ≤1.6         | ≤1.2         |
| Isolation (dB)      | ≥23          | ≥24          | ≥25          | ≥26          |

| Type                | D3111024-v02 | D3111324-v02 | D3111524-v02 | D3112024-v02 |
|---------------------|--------------|--------------|--------------|--------------|
| Coupling Value (dB) | 10           | 13           | 15           | 20           |
| Coupling Bias (dB)  | ±1.2         | ±1.3         | ±1.3         | ±1.5         |
| Insertion Loss (dB) | ≤0.8         | ≤0.5         | ≤0.4         | ≤0.3         |
| Isolation (dB)      | ≥28          | ≥31          | ≥33          | ≥38          |

| Type                | D3113024-v02 |  |  |  |
|---------------------|--------------|--|--|--|
| Coupling Value (dB) | 30           |  |  |  |
| Coupling Bias (dB)  | ±1.5         |  |  |  |
| Insertion Loss (dB) | ≤0.3         |  |  |  |
| Isolation (dB)      | ≥45          |  |  |  |

**Electrical Specifications**

|                       |   |
|-----------------------|---|
| Frequency Range (MHz) | 698-4000  |
| Impedance (Ω)         | 50  |
| Return Loss (dB)      | > 21 (Freq ≤ 2700MHz); > 19 (Freq 2700-4000MHz) |
| Directivity (dB)      | > 20 (Freq ≤ 2700MHz); > 18 (Freq 2700-4000MHz) |
| IM3 (dBc, @2x43dBm)   | ≤ -160  |
| Connector Type        | 4.3-10 Female                                   |
| Max. Power Rating (W) | 500   |
| Peak Power (W)        | 1,500   |

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**Mechanical and Environmental Specifications**

|  |                 |
|--|-----------------|
| Dimension (mm) (excluding connector and bracket) | 137 x 47.3 x 26 |
| Weight (kgs) (including connector and bracket)   | 0.45            |
| Colour   | Light Grey      |
| Mounting   | Wall Mount      |
| Operating Temp (°C)                              | -35 to +85      |
| Ingress Protection Class                         | IP65            |
| Packing Dimension (mm)                           | 250 x 95 x 45   |

(D)82851260/82871260/82881260/82891260/82812260/82842260/82862260/82813260/82814260

