



# PUBLIC SAFETY

## Splitters, Tappers and Directional Couplers

### UHF and wideband VHF models to choose from

Choose the ideal splitters, tappers and directional couplers for each public safety DAS:

- **UHF components** cover all public safety bands from 340 to 960 MHz and are optimized to deliver the best possible performance for the price
- **Wideband VHF components** cover all public safety bands from 138 to 960 MHz and are optimized to support the broadest possible range of public safety DAS applications and equipment

All components feature N-Type connectors, an IP65 rating, and are painted red for easy identification in the network.

### No compromises on quality

Public Safety Series components are designed, tested and proven to deliver reliable performance:

- Reactive and inline-style Wilkinson splitters evenly split public safety band signals with minimal reflections or losses
- Tappers unevenly split high-power RF signals in fixed ratios with minimal reflections or losses, and feature an innovative design that ensures excellent input VSWR and coupling flatness across bands
- Directional couplers feature a tapered stripline design that provides highly directional signal distribution with minimal losses

## Optimize coverage, performance and reliability with non-PIM-rated components from the brand you trust

Finding the right signal distribution components for public safety DAS networks can be difficult. High-performance components are expensive, but affordable options often don't provide adequate reliability or flexibility.

With Public Safety Series splitters, tappers and directional couplers, you can bring cost-effective coverage and performance to network locations where low PIM is not required. And you can be sure each component provides the quality, reliability and longevity Microlab products are known for.

### KEY FEATURES AND BENEFITS

*The cost-effective, low-risk way to tailor public safety DAS performance.*

- **Support for public safety applications from 340-960 MHz or 138-960 MHz**  
Increases flexibility and return on investment
- **Microlab quality and reliability**  
Reduces risks, increases lifespan
- **IP65 rating**  
Protects against quality degradation
- **N-Type connectors**  
Supports the most common installation scenarios
- **Red paint**  
Simplifies visual identification of public safety network components
- **RoHS compliant**  
Protects people and the environment from hazardous substances, improves regulatory compliance

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Bring Microlab's renowned quality and reliability to public safety DAS installations where low PIM is not required.

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**DIRECTIONAL COUPLERS 340-960 MHz**

N-TYPE PART NUMBER	COUPLING VALUE (dB)	MAIN LOSS (dB)	ACCURACY (dB)	DIRECTIVITY (dB)
<a href="#">CC-PS-5-396FN</a>	5 dB	< 2.5 dB	±1.3	18
<a href="#">CC-PS-6-396FN</a>	6 dB	< 2.0 dB	±1.3	18
<a href="#">CC-PS-7-396FN</a>	7 dB	< 1.5 dB	±1.3	18
<a href="#">CC-PS-8-396FN</a>	8 dB	< 1.4 dB	±1.5	18
<a href="#">CC-PS-10-396FN</a>	10 dB	< 1.1 dB	±1.5	18
<a href="#">CC-PS-13-396FN</a>	13 dB	< 0.8 dB	±1.6	17
<a href="#">CC-PS-15-396FN</a>	15 dB	< 0.7 dB	±1.7	17
<a href="#">CC-PS-20-396FN</a>	20 dB	< 0.5 dB	±2.0	16
<a href="#">CC-PS-30-396FN</a>	30 dB	< 0.3 dB	±2.1	16

**POWER SPLITTERS 340-960 MHz**

PART NUMBER	NO. OF WAYS	SPLIT LOSS	INSERTION LOSS (dB)	INPUT VSWR
<a href="#">D2-PS-396FN</a>	2	3	< 0.4	< 1.25:1
<a href="#">D3-PS-396FN</a>	3	4.8	< 0.6	< 1.25:1
<a href="#">D4-PS-396FN</a>	4	6	< 0.6	< 1.3:1

**TAPPERS 340-960 MHz**

PART NUMBER	RATIO	MAIN LOSS (dB)	BRANCH LOSS (dB)	ACCURACY (dB) 340-617MHZ	ACCURACY (dB) 617-960MHZ
<a href="#">DN-PS-3-396FN</a>	2:1/3dB	2.2	4.8	-2 / +0.5	±1.0
<a href="#">DN-PS-5-396FN</a>	3:1/5dB	1.7	6.1	-1.8 / +0.7	±1.0
<a href="#">DN-PS-6-396FN</a>	4:1/6dB	1.3	7	-1.8 / +0.7	±1.0
<a href="#">DN-PS-8-396FN</a>	6:1/8dB	0.9	8.6	-1.8 / +0.7	±1.0
<a href="#">DN-PS-10-396FN</a>	10:1/10dB	0.5	10.4	±1.2	±1.0
<a href="#">DN-PS-13-396FN</a>	20:1/13dB	0.5	13.2	±1.3	±1.25
<a href="#">DN-PS-15-396FN</a>	30:1/15dB	0.3	15.1	±1.3	±1.25
<a href="#">DN-PS-20-396FN</a>	100:1/20dB	0.3	20.1	±1.6	±1.5

**DIRECTIONAL COUPLERS 138-960 MHz**

N-TYPE PART NUMBER	COUPLING VALUE (dB)	MAIN LOSS (dB)	ACCURACY (dB)	DIRECTIVITY (dB)
<a href="#">CC-PS-4.8-196FN</a>	4.8 dB	≤ 2.2 dB	±1.4	14.2
<a href="#">CC-PS-6-196FN</a>	6 dB	≤ 1.75 dB	±1.5	15
<a href="#">CC-PS-7-196FN</a>	7 dB	≤ 1.45 dB	±1.7	15
<a href="#">CC-PS-8-196FN</a>	8 dB	≤ 1.35 dB	±1.35	15
<a href="#">CC-PS-10-196FN</a>	10 dB	≤ 0.9 dB	±2.0	15
<a href="#">CC-PS-13-196FN</a>	13 dB	≤ 0.7 dB	±2.0	15
<a href="#">CC-PS-15-196FN</a>	15 dB	≤ 0.5 dB	±2.0	15
<a href="#">CC-PS-20-196FN</a>	20 dB	≤ 0.4 dB	±2.0	15

**WILKINSON SPLITTERS 138-960 MHz**

PART NUMBER	NO. OF WAYS	SPLIT LOSS	INSERTION LOSS (dB)	INPUT VSWR
<a href="#">D2W-PS-196FN</a>	2	3	< 0.7	≤ 1.3:1
<a href="#">D3W-PS-196FN</a>	3	4.8	≤ 1.6	≤ 1.3:1
<a href="#">D4W-PS-196FN</a>	4	6	≤ 1.8	≤ 1.35:1

**TAPPERS 138-960 MHz**

PART NUMBER	RATIO/VALUE	MAIN/ BRANCH LOSS (dB)	BRANCH ACCURACY (dB)				
			138-200	200-250	250-380	380-520	698-960
<a href="#">DN-PS-3-196FN</a>	2:1/3dB	1.8/4.8	7.2±0.9	6.5±0.7	6.0±0.6	5.5±0.6	4.8±0.5
<a href="#">DN-PS-6-196FN</a>	4:1/6dB	1.6/7.0	8.1±0.7	7.6±0.6	7.3±0.6	7.0±0.6	6.5±0.5
<a href="#">DN-PS-10-196FN</a>	10:1/10dB	0.9/10.4	11±0.8	10.7±0.7	10.3±0.7	10.1±0.7	9.9±0.5
<a href="#">DN-PS-15-196FN</a>	30:1/15dB	0.5/15.3	16±0.8	15.6±0.8	15.5±0.8	15.2±0.8	15.4±0.5
<a href="#">DN-PS-20-196FN</a>	100:1/20dB	0.4/20.1	20.3±1.0	20.1±1.0	20±1.0	20.1±1.0	21.1±0.8
<a href="#">DN-PS-30-196FN</a>	1000:1/30dB	0.3/30.1	30.7±1.0	30.1±1.0	30.1±1.0	30.1±1.0	30.1±1.0

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