

- ◆ Split ratios from 100:1 to 2:1
- ◆ Covers all Public Safety bands: VHF, UHF, TETRA, & PS 700/800/900
- ◆ Guaranteed Low PIM
- ◆ 500 W Avg Power Rating
- ◆ Minimal RF Insertion Loss
- ◆ IP67 Rated
- ◆ RoHS compliant



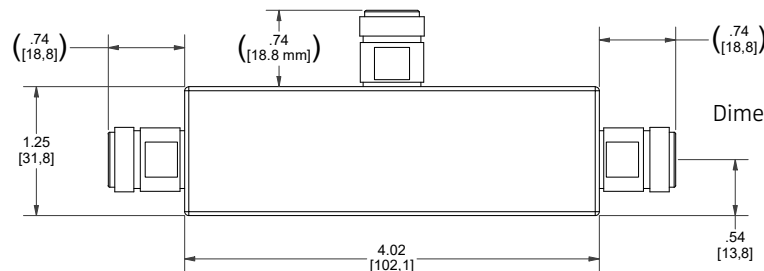
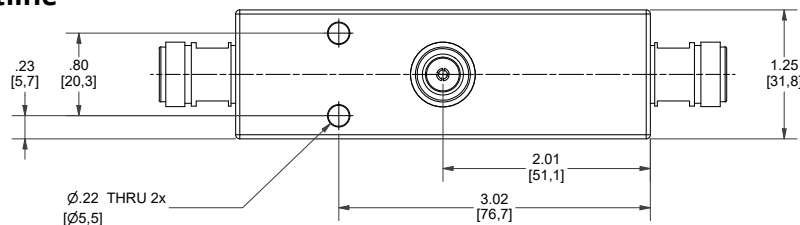
Microlab DN-x1FN series of Tappers unevenly split high power RF signals in fixed ratios from 100:1 to 2:1 with minimal reflections or loss. The Tappers cover VHF, UHF, TETRA, and 700 - 900 MHz Public Safety bands. The innovative asymmetric design ensures an excellent input VSWR and coupling flatness across the specified bands.

The lightweight design allows easy attachment to a wall using the supplied bracket. Designed with only a few solder joints and an air dielectric, loss is minimized and reliability enhanced. See DN-x4 series for similar Tappers with broader bandwidth and multiple connector options.

Frequency Bands:	Bands specified below
Dissipative Loss:	<0.1 dB (main line)
Power Rating:	500 W avg., 3 kW peak
Impedance:	50Ω nominal
PIM:	-161 dBc (Test 2x +43 dBm tones at Ambient)
Environment:	-35°C to +75°C, IP67
Connectors:	N(f), Triplate
Housing Finish:	Passivated Aluminum
Weight, nom:	14 oz (380 g)
Mounting:	Bracket supplied

Part Number	Ratio, nom. Δ O/Ps, dB	Output Split dB Main/Branch	Coupling to Branch arm, dB					Input VSWR, max.	
			137-200	200-250	250-380	380-520	698-960	147-380	380-960
DN-31FN	2:1/3	-1.8/-4.8	-6.3±0.7	-5.8±0.6	-5.4±0.6	-5.1±0.6	-4.8±0.5	1.40:1	1.30:1
DN-51FN	4:1/6	-1.0/-7.0	-8.1±0.7	-7.6±0.6	-7.3±0.6	-7.0±0.6	-6.5±0.5	1.30:1	1.25:1
DN-71FN	10:1/10	-0.4/-10.4	-11.0±0.8	-10.7±0.7	-10.3±0.7	-10.1±0.7	-9.9±0.5	1.20:1	
DN-91FN	30:1/15	-0.1/-15.1	-16.0±0.8	-15.6±0.8	-15.5±0.8	-15.2±0.8	-15.4±0.5		
DN-01FN	100:1/20	-0.1/-20.1	-20.3±1.0	-20.1±1.0	-20.0±1.0	-20.1±0.8	-20.1±0.8		

Mechanical Outline



Note: Specifications are subject to change without prior notification.

1APR2021