Tappers, DN-x4FN series

Multi-Band, Lightweight, Unequal Splitters
350 - 5,930 MHz, N connectors
Rev. I

Now with coverage to 5,930 MHz

- Split ratios from 1000:1 to 2:1
- Tetra, PMR, Cellular, UMTS, and WiFi
- Meets EN50155:2001 (Class T3)
- Low Specified PIM
- 500 W Avg Power Rating
- Minimal RF Insertion Loss
- RoHS compliant
- High Reliability, IP67



LOW PIM

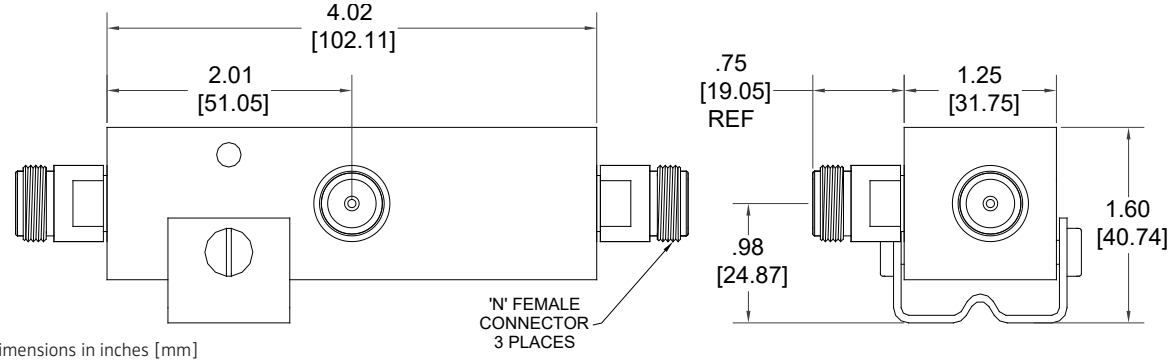
Microlab DN-x4FN series of Tappers unevenly split high power cellular signals in fixed ratios from 1000:1 to 2:1 with minimal reflections or loss over the key wireless bands in the range 350 - 5,930 MHz, (there is no coupling 1550 to 1650 MHz). The innovative asymmetric design ensures an excellent input VSWR and coupling flatness across the specified bands, even down to a 2:1 split.

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-x4FD and DN-x4FE series for similar Tappers with 7-16 and 4.3-10 connectors.

Frequency Bands:	Bands specified below
Dissipative Loss:	<0.1 dB (main line)
Power Rating:	500W avg., 3 kW peak
Impedance:	50Ω nominal
Intermod. (PIM):	-161 dBc (-118 dBm) (2 tones at +43 dBm)
Environment:	IP67, -40°C to +85°C
Connectors:	N(f) trimetal
Housing Finish:	Passivated Aluminum
Weight, nom:	14 oz (380 g)
Mounting:	Bracket supplied

Model Number	Ratio, nom. (dB Δ btwn Outputs)	Output Split Main/Branch (dB)	Branch Flatness ref. to Input Level, incl Loss, dB 350 - 380MHz	380 - 520MHz	617 - 960MHz	1710 - 2700MHz	3500 - 4500MHz	4900- 5850MHz	5850 5930MHz	Input VSWR* max 700 - 2500MHz	350 - 5930MHz
DN-34FN	2:1/3.0dB	-1.8/-4.8	+0/-1.3	+0.3/-1.0	± 0.4	± 0.4	+0.1/-1.7	+0.4/-0.6	+0.4/-0.6	1.3:1	1.5:1
DN-44FN	3:1/4.8dB	-1.3/-6.1	+0/-1.3	+0.3/-0.8	± 0.3	± 0.4	+0/-1.7	+0.4/-0.6	+0.4/-0.6	1.2:1	1.4:1
DN-54FN	4:1/6.0dB	-1.0/-7.0	+0/-1.3	+0.3/-0.8	± 0.3	± 0.4	+0/-1.7	+0.4/-0.6	+0.4/-0.6	1.2:1	1.3:1
DN-64FN	6:1/8.0dB	-0.7/-8.5	+0/-1.3	+0.2/-0.6	± 0.4	± 0.4	+0/-1.5	± 0.6	± 0.6	1.2:1	1.3:1
DN-74FN	10:1/10dB	-0.4/-10.5	+0/-1.3	+0.3/-0.5	± 0.4	± 0.4	+0/-1.5	± 0.6	± 0.6	1.2:1	1.3:1
DN-84FN	20:1/13dB	-0.2/-13.0	± 1.0	± 0.5	± 0.5	± 0.5	+0.2/-1.0	± 0.6	± 0.6	1.2:1	1.3:1
DN-94FN	30:1/15dB	-0.1/-15.3	± 1.0	± 0.8	± 0.6	± 0.5	+0.2/-1.3	± 0.8	+0.8/-1.8	1.2:1	1.3:1
DN-04FN	100:1/20dB	-0.1/-20.1	± 1.0	± 1.0	± 0.8	+0.2/-1.4	+2/-0	+4/-0	+6.0/-0	1.25:1	1.25:1
DN-14FN	1000:1/30dB	-0.1/-30.1	± 1.5	± 1.5	+1.4/-0.2	+1.0/-0.5	+2.5/-0.5	+3/-1	+3/-1	1.2:1	1.3:1

*VSWR is not defined at 1550 - 1650 MHz



Dimensions in inches [mm]

Note: Specifications are subject to change without prior notification.

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