



MICROLAB/FXR

DG-34/44/54 series

Unequal Splitters

Multi-Band, Unequal Power Dividers
DC Continuity, 800 – 2,200 MHz

- ◆ Splits power in 4:1, 3:1 or 2:1 Ratios
- ◆ DC continuity for remote power feeding
- ◆ Covers Cellular, PCS and UMTS Bands
- ◆ 500 Watt Average Power Rating
- ◆ Minimal RF Insertion Loss
- ◆ High Reliability
- ◆ N Connectors



DG-54FN shown above

Microlab/FXR DG-series Unequal Power Splitters unevenly split high power cellular signals in the ratios of 4:1, 3:1 or 2:1 with minimal reflections or loss over the whole 800 – 2200 MHz band. See [DG-32/52 series](#) for 380 – 2200 MHz versions and [DH series](#) for higher split ratios.

An advantage of this reactive splitter design over capacitively coupled designs, is that DC continuity is maintained to both main and branch lines so allowing signal cable powering of amplifiers and mini base stations.

Its mechanical shape allows simple attachment to a wall using clips or straps. Designed with only a few solder joints and an air dielectric, the loss has been minimized and reliability enhanced. (10/01)

Model	Split Ratio (Approx. output inequality in dB)	Output ref. to Input, dB including Insertion Loss	
		Main Line	Branch
DG-54FN	4:1 (6 dB)	-1.0 ± 0.3	-7.0 ± 0.5
DG-44FN	3:1 (4.7 dB)	-1.3 ± 0.4	-6.0 ± 0.6
DG-34FN	2:1 (3 dB)	-1.8 ± 0.4	-4.8 ± 0.6

Frequency Band: 800 – 2200 MHz.
Input VSWR: 1.25:1 max.
Power Rating: 500W avg., 1.5 kW peak
Impedance: 50Ω nominal
Temperature: -35°C to +75°C
Finish: Housing: Black powder paint
Connectors: Silver Plated

