

MR-DARF-XX

Dual Active Reject Filter

MARS Dual Active Reject Filter (DARF) provides a cost effective solution for eliminating interfering signals within the cellular frequency band (over 30 dB rejection).

The full system consists of a 19" mountable rack unit that supports up to three dual reject filter modules (see picture), while each module handles one sector.

Additional Features:

- Frequency agile.
- Operates with RX and diversity antenna.



Specifications

Electrical

Frequency range	825-835 MHz
IF Frequency	86 MHz
Band Reject (-3 dB)	≤ 150 KHz
Band Reject (-30 dB)	≥ 50 KHz (±5%) non Symmetrical
Null Depth, min.	40 dB
Gain	3 dB (min.) to 7 dB (max.)
Noise Figure, max.	6 dB
Input Intercept Points IP3	≥ -2 dBm
1 dB Compression Point	≥ -12 dBm
Overall Gain over Frequency Band	3 (+3 dB / -2 dB)
Gain Tracking over Frequency Band	≤ 3 +1 dB
Indicators (Led)	Lock Detection, DC
Tuning Step Conversion	25 KHz
DC Voltage	27 V
DC Current, max.	600 mA

Mechanical

Dimensions	19" Box
RF Connectors	N-Type, Female/Male
DC Connector	Terminal Block
Mount	Free Standing

Environmental

Operating Temperature Range	-10°C to +50°C
Storage Temperature Range	-10°C to +60°C
Humidity	90%

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