



Product Description

RFS MBC-89/18/21 series is a three input Triplexer which allows combination and separation of the signals in each wireless band. To minimize band inter-reaction, the inputs are well isolated and have minimal insertion loss over their respective frequency bands. The Triplexer has been designed using passive, proprietary techniques which minimize cost and size. Through holes are provided for simple mounting to a surface or cable tray using N Connectors.



Features/Benefits

- Combiner for Feeder Sharing
- 30 dB Input Isolation
- Minimal RF Insertion Loss
- 10W/port Average Power Rating
- Rugged, High Reliability
- Low Passive IM, PIM
- Low Cost Design
- N female connectors

Technical Features

| | |
|-----------------------------------|-------------------------------|
| Product Type | Triplexer |
| Application | Outdoor |
| Frequency Range, MHz | 880-960/1710-1880/1920-2170 |
| Number of Input Ports | 3 |
| Number of Output Ports | 1 |
| Connectors | N |
| Input Connector Type | N-female |
| Output Connector Type | N-female |
| Impedance, Ohm | 50 |
| Insertion Loss, dB | < 1.3, typically < 1 |
| Return Loss - Output Port, dB | > 12 |
| Return Loss - Input Port, dB | > 12 |
| Intermodulation (IM3) | < -140 dBc with 2x40 dBm |
| Isolation, dB | > 30 in band |
| Input Power per Port, W | 10, avg. |
| Max. RF Peak Power, W | 3,000 |
| DC-Path | only Port 2 (GSM) to output |
| Temperature Range, °C (°F) | 0 to +50 (32 to 122) |
| Height (Less Connectors), mm (in) | 25 (0.98) |
| Width (Less Connectors), mm (in) | 118 (4.65) |
| Length (Less Connectors), mm (in) | 202 (7.95) |
| Mounts in 19" (483mm) EIA Rack | No |
| Weight, kg (lb) | 1.4 (3.09) |
| Environmental Class | IP 65 |

Notes



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