

## Datasheet

### Vision Gold Masthead Diplexers & Filters

V24-210VHF / UHF Diplexer with DC Pass to UHF  
 V24-310FM / DAB / UHF Triplexer with DC Pass to UHF  
 V24-211Terr / SAT Diplexer with DC pass to SAT and 12V 100mA Auto Power to Terr  
 V25-101UHF only Band-pass filter to reject TETRA and GSM interference

- § High quality diplexers, triplexers and filters with low insertion loss and high rejection
- § Outdoor weatherproof IP53 rated ABS housing for mast or bulkhead fixing
- § Fully screened metal internal modules for minimum interference
- § Gold F-connectors for superior connectivity
- § Optimum filtering with low insertion loss
- § DC Pass options for through power



Model	V24-210 VHF / UHF Diplexer	V24-310 FM / DAB / UHF Triplexer	V24-211 Terr / SAT Diplexer	V25-101 UHF Band-Pass
Frequency Range	VHF 40-240MHz UHF 470-862MHz	FM 87.5-108MHz DAB 216-240MHz	Terr 40-862MHz SAT 950-2150MHz	470-862MHz
Insertion Loss	VHF <0.4dB UHF <0.6dB	FM <0.4dB DAB<0.5dB UHF<0.6dB	Terr 0.1dB to 1.6dB SAT <2.5dB	UHF 0.5dB typ
Isolation / Out-of-band Rejection Port to Port	VHF > 300MHz >28dB UHF < 420Mhz >27dB UHF > 930MHz >30dB	FM >141MHz>32dB DAB < 300Mhz>28dB UHF < 420MHz>28dB UHF > 930MHz>32dB	Sat in Terr >-30dB Terr in SAT >-32dB	<440MHz >30dB <400MHz >40dB >890MHz >40dB >940MHz >16dB
Return Loss	12dB min	12dB min	12dB min	10dB min
DC Pass	Combined - UHF 12V 100mA	Combined - UHF 12V 100mA	Combined to SAT 18V 500mA  12V 100mA max Combined to Terr with Auto-Power & Short Circuit Protected	DC Blocked
Size	105mm x 90mm x 58mm			
Housing	Nylon mast tie up to 55mm masts or wall/bulkhead			

In the interests of continued product development & improvement, Vision Products (Europe) Ltd reserves the right to change product specifications, design & dimensions. Data correct at time of going to press 25/04/2008.