



DPF VHF/33-DR 3000

6-Cavity Duplexer for the 160 MHz band for installation inside

- The DPF VHF/33-DR 3000 is a 6-cavity duplex filter designed to be built into the Motorola DR 3000 duplex base station / repeater.
- This duplexer is delivered in a low-band version,
 DPF VHF/33-DR 3000-L, tunable within 138 156 MHz, and a high
 band
 - version, DPF VHF/33-DR 3000-H, tunable within 152 175 MHz. The duplexer can delivered with 4 10 MHz spacing.

DESCRIPTION

- The DPF VHF/33-DR 3000 is primarily intended for TX and RX operation on single frequencies, but it can also, however with slightly reduced data, be used where the TX and RX operate on several channels, i.e. within a certain port bandwidth. In the latter case, factory tuning is recommended.
- The filter has very small physical dimensions due to the use of high-Q, temperature-compensated helical resonators in a compact, extruded aluminium housing. The chassis is made of passivated steel, and teflon insulation has been applied in the coaxial cables and in the connectors.
- The filter is coated with black vinyl to prevent corrosion.



ORDERING DESIGNATION

ТҮРЕ	TUNING RANGE (MHz)	DUPLEX SPACING (MHz)	PRODUCT NO.	
DPF VHF/33-DR 3000-L-4/6	138 - 156	4-6	200002189	
DPF VHF/33-DR 3000-L-6/8	138 - 156	6 - 8	200002430	
DPF VHF/33-DR 3000-L-8/10	138 - 156	8 - 10	200002429	
DPF VHF/33-DR 3000-H-4/6	152 - 175	4 - 6	200002202	
DPF VHF/33-DR 3000-H-6/8	152 - 175	6 - 8	200002432	
DPF VHF/33-DR 3000-H-8/10	152 - 175	8 - 10	200002431	

ORDERING INFORMATION

When ordering, please state TX and RX frequencies. If TX and RX frequencies are not stated, the filters are delivered non-adjusted.





SPECIFICATIONS

ELECTRICAL		
MODEL	DPF VHF/33-DR 3000	
FREQUENCY		
DPF VHF/33-DR 3000-L	: 138 - 156 MHz	
DPF VHF/33-DR 3000-H	: 152 - 175 MHz	
MAX. INPUT POWER	50 W	
INSERTION LOSS LOW		
OR HIGH TO ANT.		
(at 5 MHz duplex spacing)		
Single-channel tuned:	≤ 1.5 (typ. 1.3 dB)	
Multi-channel tuned, 1.5 MHz BW:	≤ 1.6 (typ. 1.4 dB)	
LOW TO HIGH ISOLATION		
ON LOW FREQUENCY		
Single-channel tuned:	≥ 80 dB	
Multi-channel tuned, 1.5 MHz BW:	≥ 40 dB	
HIGH TO LOWISOLATION		
ON HIGH FREQUENCY		
Single-channel tuned:	≥ 80 dB	
Multi-channel tuned, 1.5 MHz BW:	≥ 40 dB	
IMPEDANCE	Nom. 50 Ω	
SWR (All ports)	≤1.5	

MECHANICAL	
TEMP. RANGE	-30° C → +60° C
FREQ. STABILITY	Approx. 4.5 ppm/° C
CONNECTION	RG 400 Length = 510 mm / 20.08 in
CONNECTORS Low and high port: Ant. port:	BNC-male N-female, bulkhead
DIMENSIONS (L x W x H)	170 x 77 x 61.7 mm / 6.69 x 3.03 x 2.43 in
WEIGHT	Approx. 860 g / 1.90 lb.
MOUNTING	Supplied with three stays (length 63 mm / 2.48 in) for mounting with screws M4 x 12 mm/0.47 in

PLEASE NOTE

Special configurations of this filter type may be quoted on request. The filter is supplied with flying leads (RG 400 coaxial cable) terminated with connectors.

The filter is delivered with 3 stays and screws for mounting.





MOUNTING IN MOTOROLA DR 3000



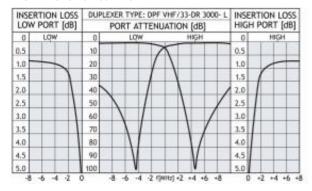


MOUNTING IN MOTOROLA DR 3000





TYPICAL RESPONSE CURVES



MOUNTING DETAILS

