

# DUPLEXERS, DIPLEXERS AND POWER SPLITTERS

## DPF 70/22-250 Duplex Filter for the 450 MHz Band



### DESCRIPTION:

- ★ High power base station duplex filter for the 400–470 MHz range.
- ★ The use of large  $\varnothing 250$  mm cavities means a high Q, resulting in a small duplex spacing.
- ★ The large dimensions also mean a high power rating.
- ★ Unloaded Q of a single cavity is approx. 8000.
- ★ High frequency stability on temperature and power.
- ★ Mounted on 19" brackets.



### SPECIFICATIONS:

ELECTRICAL	
MODEL	DPF 70/22-250
TX/RX FREQUENCY	406–470 MHz
MAX. INPUT POWER	300 W @ 1.5 dB
TYPICAL INSERTION LOSS	250 kHz @ 1.5 dB 500 kHz @ 1.2 dB 1000 kHz @ 1.0 dB
TX NOISE SUPPRESSION ON RX FREQUENCY AND RX ISOLATION ON TX FREQUENCY	250 kHz @ 50 dB 500 kHz @ 60 dB 1000 kHz @ 70 dB
MECHANICAL	
TEMP. RANGE	-30° C → +60° C
FREQ. STABILITY	Approx. 1.5 ppm/° C
CONNECTORS	N-female
DIMENSIONS	510 x 515 x 300 mm
WEIGHT	Approx. 15 kg

TYPICAL RESPONSE CURVES FOR 500 kHz DUPLEX SPACING:

