

## Ultra-compact built-in type Duplexer for TETRA cellular radio telephones

### DESCRIPTION

- > Miniaturized, light-weight, component-sized duplexer.
- > Ideal for integration in compact radio telephones.
- > Four cavities in Tx-branch, four cavities in Rx-branch.
- > Low insertion loss and temperature drift.
- > Rugged mechanical design.
- > Fully environmentally tested.



### SPECIFICATIONS

Electrical	
Model	MIX 70/44-PR-TETRA
Frequency	380 - 460 MHz
Max. Input Power	25 W
Pass Band Insertion Loss	≤ 2.0 dB (typ. 1.8 dB)
Impedance	50 Ω
VSWR	< 1.5:1
Stop Band Attenuation	> 60 dB
Mechanical	
Connection(s)	SMA(f)
Dimensions	118 (incl. conn.) x 51 x 27 mm / 4.65 (incl. conn.) x 2.01 x 1.06 in.
Weight	Approx. 0.12 kg / 0.26 lb
Environmental	
Operating Temperature Range	-30°C to +60°C

### ORDERING

Model	Product No.	Description	Frequency
MIX 70/44-PR-TETRA-1-SMA(f)	200000629	Housing height: 27 mm	380 - 385 MHz / 390 - 395 MHz
MIX 70/44-PR-TETRA-2-SMA(f)	200002353	Housing height: 27 mm	385 - 390 MHz / 395 - 400 MHz
MIX 70/44-PR-TETRA-3-SMA(f)	200002354	Housing height: 27 mm	410 - 415 MHz / 420 - 425 MHz
MIX 70/44-PR-TETRA-4-SMA(f)	200002375	Housing height: 27 mm	415 - 420 MHz / 425 - 430 MHz
MIX 70/44-PR-TETRA-5-SMA(f)	200002376	Housing height: 22 mm	450 - 455 MHz / 460 - 465 MHz
MIX 70/44-PR-TETRA-6-SMA(f)	200002377	Housing height: 22 mm	455 - 460 MHz / 465 - 470 MHz
Accessories			
Mounting Kit for HYTERA RD 965	200002517		

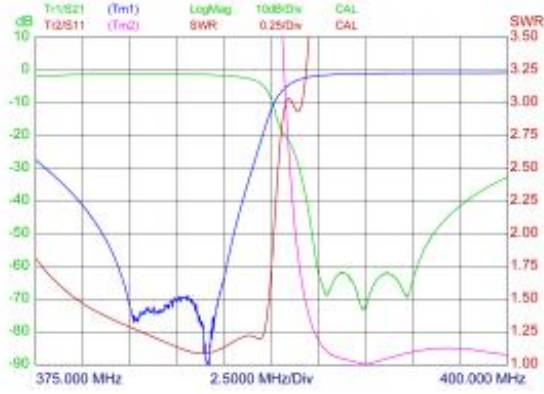
### ORDERING NOTE

These filters can be delivered with other connector types on request:

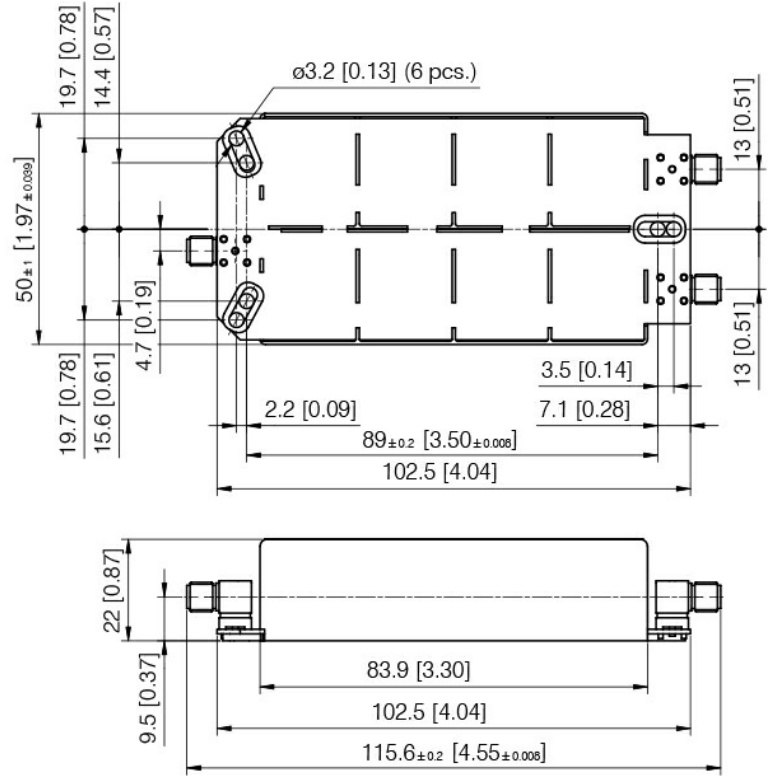
- MCX angle
- MCX straight

The HYTERA cable kit is used for mounting the duplexer inside the HYTERA RD 965 repeater. It consist of 3 cables. A manual for mounting the duplexer is provided with the kit.

Typical response curves

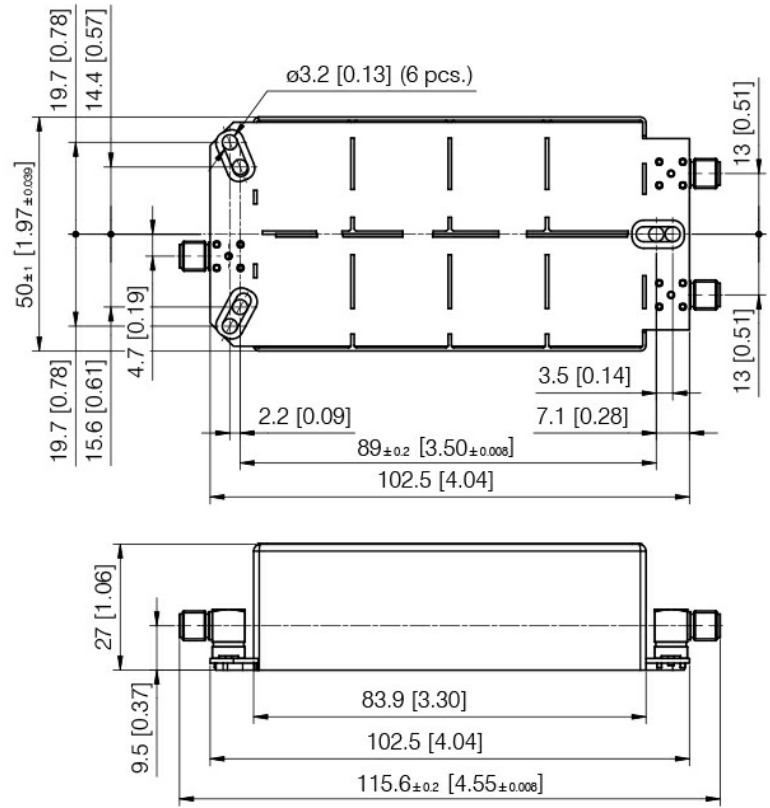


Mechanical Dimensions



Housing height 22 mm (All dimensions are given in mm [in.]

Mechanical Dimensions



Housing height 27 mm (All dimensions are given in mm [in.]