

## TETRA combiner with SWR adaption/adjustment network

### DESCRIPTION

- Combiner for coupling of two TETRA mobile transceivers on one common antenna.
- Factory-adjusted to either 380 - 410 MHz or 400 - 430 MHz.
- Compact dimensions – especially suitable for mobile applications.
- FME-connectors for direct connection of FME-cable without extra adapter.
- For parallel operation of two two-way communication radios (transceivers) where highest possible decoupling (isolation) is necessary.
- Integrated SWR adjustment network for optimization of isolation in the frequency range of 380 - 410 MHz or 400 - 430 MHz. Via the adjustment network the effective SWR of the antenna can be optimized and consequently the isolation between the ports of the combiner clearly improved.
- High isolation obtainable: Up to 60 dB (Dependent on the SWR of the connected antenna).
- The adjustment of the SWR adjustment network takes place via built-in variable capacitors.
- Max. TETRA transmitter power 2 x 10 W.
- Also usable as equal power divider for max. 20 W.
- Very small ripple over the total frequency range.



### SPECIFICATIONS

Electrical	
Model	PHY-TETRA-2-FME-...
Frequency	380 - 410 MHz or 400 - 430 MHz
Max. Input Power	20 W
Impedance	50 Ω
Nominal Divider Loss	3 dB
VSWR	< 1.3:1
No. of Channels	2 - 2

Mechanical	
Connection(s)	FME-connectors
Dimensions	50.5 x 66 (including bottom plate and connectors) x 19.5 mm / 1.99 x 2.59 (including bottom plate and connectors) x 0.77"
Weight	0.08 kg / 0.18 lb
Mounting	4 mm dia. (4 holes)

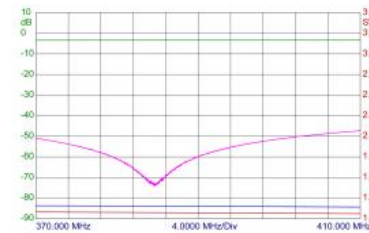
Environmental	
Operating Temperature Range	-30°C to +60°C

### ORDERING

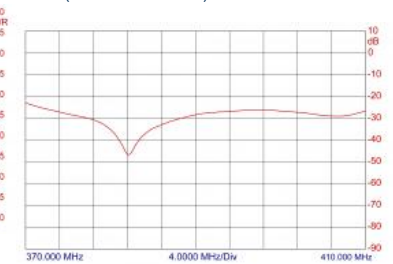
Type	Product No.
PHY-TETRA-2-FME-380-410	210001836
PHY-TETRA-2-FME-400-430	210001837

### DIAGRAM

TYPICAL RESPONSE CURVE SWR 1



TYPICAL RESPONSE CURVE ANTENNA MU 1-Z/s (with 1.5 m cable)



TYPICAL RESPONSE CURVE ANTENNA MUMOUNTING DETAILS 3-BZ/TETRA/I (with 1.5 m cable)

