

TETRA combiner with SWR adaption/adjustment network

DESCRIPTION

- Combiner for coupling of four 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 four 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 4 x 5 W.
- Also usable as equal power divider for max. 20 W.
- Very small ripple over the total frequency range.

SPECIFICATIONS

Electrical	
Model	PHY-TETRA-4-FME-...
Frequency	380 - 410 MHz or 400 - 430 MHz
Max. Input Power	20 W
Impedance	50 Ω
Nominal Divider Loss	6 dB
No. of Channels	4 - 4
Mechanical	
Connection(s)	FME-connectors
Dimensions	56.7 x 100 (including bottom plate and connectors) x 22 mm / 2.23 x 3.94 (including bottom plate and connectors) x 0.87"
Weight	0.14 kg / 0.31 lb
Mounting	4 mm dia. (4 holes)
Environmental	
Operating Temperature Range	-30°C to +60°C

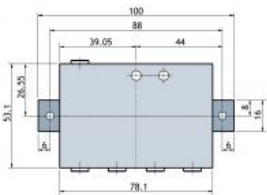
ORDERING

Type	Product No.
PHY-TETRA-4-FME-380-410	210002057
PHY-TETRA-4-FME-400-430	210002058

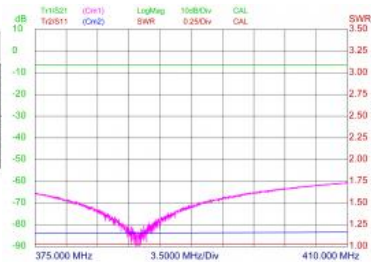


DIAGRAM

MOUNTING DETAILS



TYPICAL RESPONSE CURVE SWR 1



TYPICAL RESPONSE CURVE ANTENNA MU 1-Z/s (with 1.5 m cable) TYPICAL RESPONSE CURVE ANTENNA MU 3-BZ/TETRA/I (with 1.5 m cable)

