



MCU6400 SERIES HF MULTICOUPLERS

MCU6402

Part Number 604325-02

MCU6403

Part Number 604325-00

MCU6412

Part Number 604324-01

- Wideband Receive Multicouplers
- 10 kHz to 30 MHz
- Designed for Use in Close Proximity to Transmitters
- For Use with AS200 Active and Passive Receive Antennas
- Excellent Intermodulation Performance
- High Power Handling Capability
- Powered Via RF Cable
- Designed for Use in Harsh Naval Environments



MCU6412 Receive Multicoupler



MCU6403 Receive Multicoupler

GENERAL

Configuration

- MCU6402: 4 antenna inputs with 2 outputs per input
- MCU6403: 4 antenna inputs with 3 outputs per input
- MCU6412: 4 inputs to 12 outputs via non-blocking switch matrix (any receiver output can be connected to any antenna input)

Frequency Range

- 10 kHz to 30 MHz

Noise Figure

- MCU6402/6403: 9.5dB with 50 ohms source and termination over the frequency range 60 kHz to 30 MHz
- MCU6412: 16 dB with 50 ohms source and terminations over the frequency range 60 kHz to 30 MHz

Intermodulation Products

- Between 1.6 MHz and 30 MHz for two equal signals, the 3rd order intercept point is +50 dBm typical, +47 dBm min

Input and Output Impedance

- 50 ohms nominal

Remote Control

- MCU6402/6403:
 - No functions to control; only status information provided
 - BITE/status reported via discretes to MCU6412
- MCU6412: RS-232 asynchronous interface

Front Panel

- MCU6402/6403: Power ON/OFF indication and LED status indication for each output
- MCU6412: Indication by LEDs of the input selected for each output and of potential faults

Power Supply

- 115V / 230V AC \pm 10%
- 50-60 Hz \pm 10%

ENVIRONMENTAL/PHYSICAL

Temperature

- MIL-STD-810E, Methods 500.3, 501.3, 502.3
- Operation: -5°C to +50°C
- Storage: -30°C to +70°C

Humidity

- MIL-STD-810E, Method 507.3 88% at 40°C

Vibration

- MIL-STD-810E cat 9 random

Shock

- MIL-STD-810D, 30g 25 ms (in a shock-mounted cabinet)

EMC/EMI

- MIL-STD-461/462

Size (H x W x D)

- MCU6402/6403: 5 x 19 x 12.4 in (133 (3U) x 483 x 315 mm)
- MCU6412: 5 x 19 x 18.5 in (133 (3U) x 483 x 470 mm)

Weight

- 6402/3: 18 lbs (8kg)
- 6412: 22 lbs (10kg)