

SMR-4820 Microwave Receiver



M/A-COM SIGINT Products

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VENDOR DESCRIPTION

The SMR-4820 Microwave Receiver is a high performance, sweeping receiver designed for applications requiring small size and low power consumption. The receiver tunes 2-26.5 GHz with a 10 kHz tuning resolution and the tuning range is extendable to 40 GHz. Standard IF outputs are 70 MHz (55 MHz bandwidth) and 140 MHz (85 MHz bandwidth). Four selectable IF filters (5-55 MHz) centered at 70 MHz are available. The SMR-4820 receiver design is optimized for receiving digital signals and has an integrated phase noise of less than 0.45° rms.



Product Manager
Robotic & Unmanned Sensors
 Telephone: (732) 427-5827 / DSN 987
 Fax: (732) 427-5072 / DSN 987
 e-mail: SFAE-IEWS-NV-RUS@IEWS.monmouth.army.mil

SIGINT

Hardware	
Power: 50 watts	Operating Speed: N/A
Weight: 12 lbs	Operating Temp.: 0°C to 60°C
Dimensions: 64 mm x 178 mm x 305 mm	Storage Temp.: -10°C to 70°C
Internal Volume: 0.15 ft ³	Interface: RS-422A or RS-232C
In-Flight Manipulation of the Sensor: Yes	Bandwidth Required: N/A
Able to Perform in an Environment with Yaw & Pitch Rates: Yes	TCDL Compatibility: N/A
Range – N/A	MTBF: N/A
	MTTR: N/A
Operating Altitude – N/A	Maintainability: 2-level BIT to LRM level

Performance
Performs 24 hrs continuous on-station mission operations within 24 hr period
Capable of 24 hr surge for X consecutive days with X days ops being limited to 16 hrs – Proprietary