

## EM-6700 | RF Switch with Battery Pack



### Description

The EM-6700 RF Switch is a low-noise, low-loss solution for manual control of fixed monitoring setups.

The system consists of two modules: the RF Switching Unit and the (Optional) Battery Pack/Manual Control Unit. The RF switch can operate via USB power (+5V) from a host device, supporting Port 1/Port 2 commands, or independently using the Battery Pack with push-button manual switching.

Both modules are sealed for water and dust resistance, ensuring reliable operation in harsh environments.

### Specifications

#### Electrical

**Frequency Range:** 10MHz – 40GHz

**VSWR:** < 1.5:1 Typical, 3.5:1 Max

**Impedance:** 50Ω, Nominal

**Insertion Loss:** 2.5dB Typical, 10dB Max

**Isolation:** >50dB Typical

**Noise Figure:** < 4dB Typical

**P1dB:** 31.5dBm Typical

**IP3:** 41.5dBm Typical

**RF Input Power:** 20 dBm Max

**Connector:** 2.92mm (F) (**EM-6700** | 10MHz-40GHz)

**Switch Architecture:** SPDT Pin Diode

**Battery Life:** 36 Hours Nominal

**Input Control:** Manual Button, USB\*

#### Mechanical

##### Dimensions RF Switch:

Width: 6.5 in. (165.0 mm)

Height: 2.5 in. (63.5 mm)

Depth: 5.5 in. (140.0 mm)

Weight: 1.87 lbs. (846g)

##### Dimensions Battery Pack/Manual Control Unit:

Width: 6.5 in. (165.0 mm)

Height: 2.5 in. (63.5 mm)

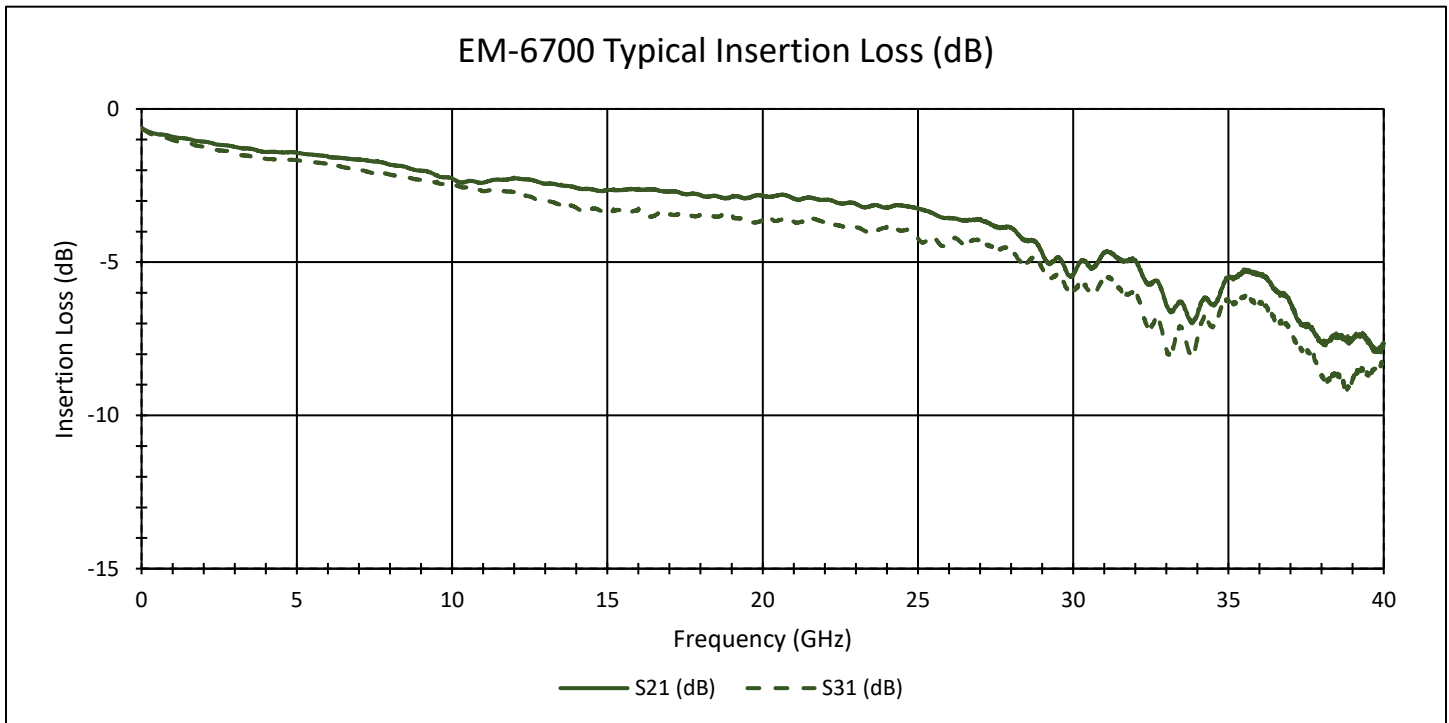
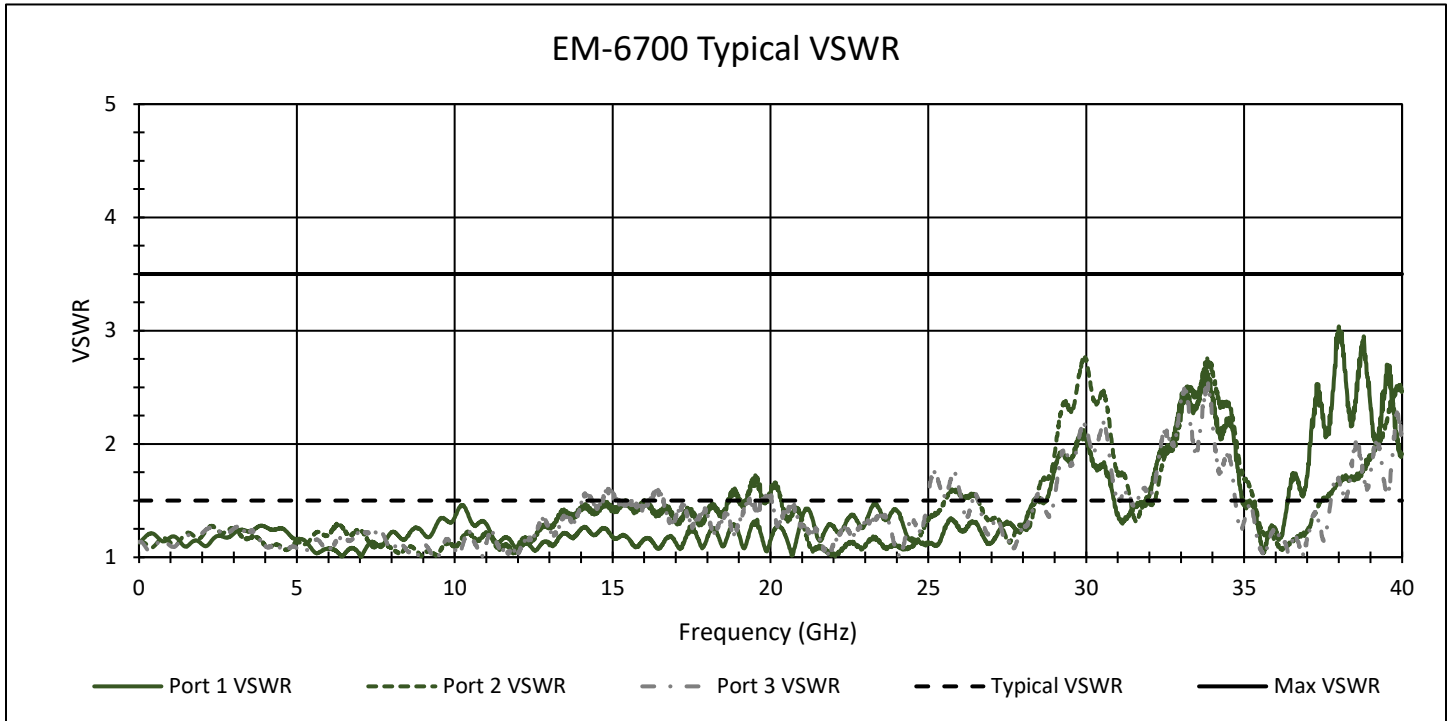
Depth: 6.3" (160.0 mm)

Weight: 3.2 lbs. (1460g)

Specifications subject to change without notice, unless otherwise specified. Product is manufactured in Johnstown, NY, U.S.A.



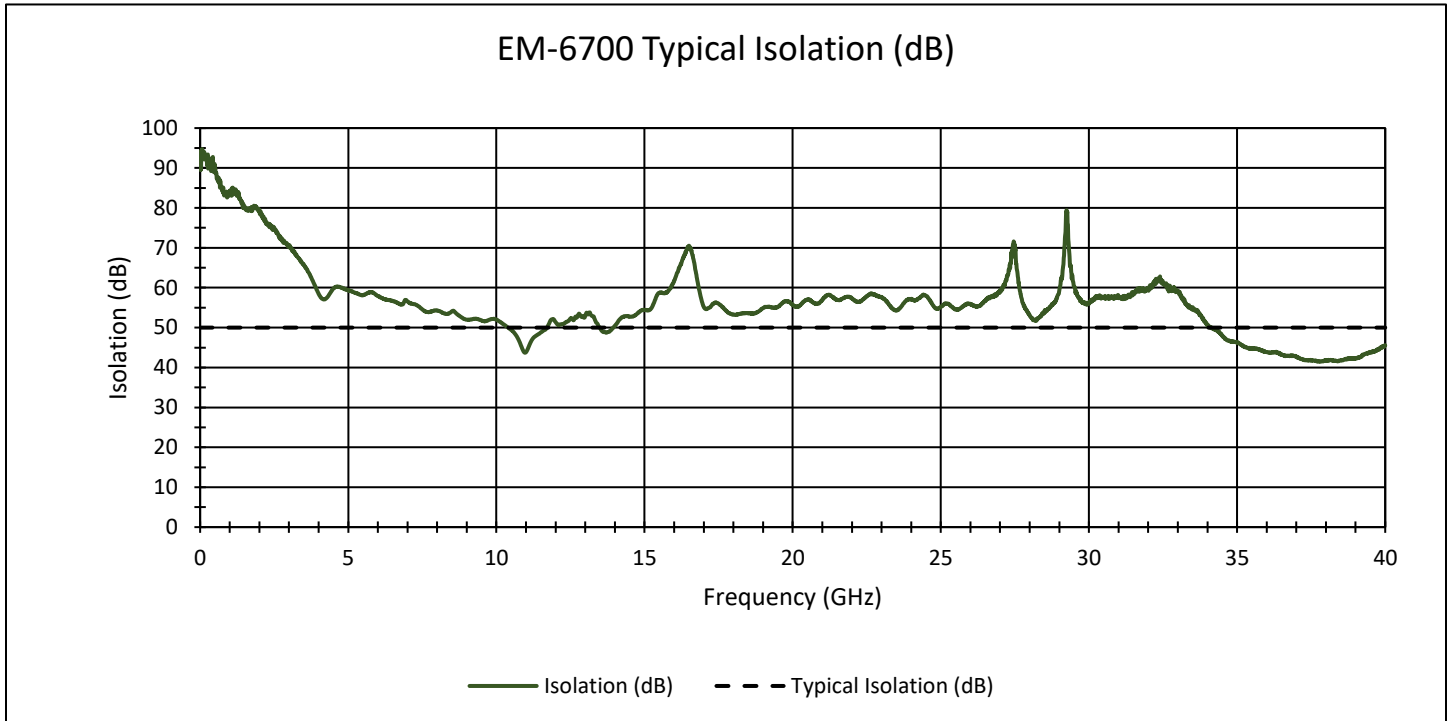
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