

8 1x4 RF Multicoupler

N00173-14-Q-0345

Attachment # 1

Page 1 of 1

Top-Level Requirements

Category	Req't #	Description
Physical	0M-1-01	The Unit shall be rack-mountable in a standard EIA 19-inch rack.
Physical	0M-1-02	The maximum height of the Unit shall be 3 RU.
Physical	0M-1-03	The maximum height of the Unit should be 2 RU.
Physical	0M-1-04	The maximum depth of the Unit shall be 24 inches.
Physical	0M-1-05	All external hardware interfaces shall be located on the rear of the Unit.
Power	0M-1-06	The Unit shall accept prime power of 110-240 V/50-60 Hz.
Power	0M-1-07	The Unit should conform to IEC 61000-3-2 for power quality.
Environment	0M-1-08	The Unit shall operate in ambient temperatures between 0 ° and 40 °C.
HW Interfaces	0M-1-09	The Unit shall accept 8 RF inputs through SMA connectors over an operational frequency that encompasses 20 MHz to 6 GHz.
HW Interfaces	0M-1-10	The Unit shall provide 32 RF outputs through SMA connectors over an operational frequency that encompasses 20 MHz to 6 GHz.
Hardware	0M-1-11	The Unit shall provide 4 RF outputs for each RF input.
	0M-1-12	The Unit shall meet RF performance requirements 0M-1-13 through 0M-1-17 over an operational frequency range that encompasses 20 MHz to 6 GHz.
Hardware	0M-1-13	Each RF output shall have a conversion gain of 0 ± 4 dB.
Hardware	0M-1-14	The Unit shall provide isolation between the 4 channels of at least 60 dB.
Hardware	0M-1-15	The Unit shall provide output to output isolation (for the same channel) of at least 30 dB.
Hardware	0M-1-16	The worst case Noise Figure shall be less than or equal to 12 dB.
Hardware	0M-1-17	The input 1 dB power compression level shall be at least -10 dBm.