

RF Performance Characteristics

RF Performance Characteristics

	Rack Module Fixed Gain Link	Rack Module Variable Gain Link	Rack Module Fixed Gain Short Haul Link	Rack Module High Gain Link	OEM Module Variable Gain Link
Frequency Range	950 - 2150 MHz	950 - 2150 MHz	950 - 2150 MHz	950 - 2150 MHz	950 - 2150 MHz
Flatness	± 1.00 dB (max) ^a ± 0.40 dB (typical) ^a ± 0.20 dB in any 36 MHz ^{a†}	± 1.25 dB (max) ^{a‡} ± 0.40 dB (typical) ^{a‡} ± 0.20 dB in any 36 MHz ^{a†}	± 1.25 dB (max) ^a ± 0.40 dB (typical) ^a ± 0.20 dB in any 36 MHz ^{a†}	± 1.50 dB (max) ± 0.60 dB (typical) ± 0.25 dB in any 36 MHz ^{a†}	± 1.25 dB (max) ^{a‡} ± 0.70 dB (typical) ^{a‡} ± 0.25 dB in any 36 MHz ^{a†}
VSWR (50 Ohm)	1:1.5 [†]	1:1.5 [†]	1:1.5 [†]	1:1.5 [†]	1:1.5 [†]
IMD	-60 dBc ^{†c}	-60 dBc ^{†c}	-62 dBc ^{†c}	-66 dBc ^{†c}	-62 dBc ^{†c}
CNR	58 dB ^{†b}	58 dB ^{†b}	48 dB ^{†b}	62 dB ^{†b}	56 dB ^{†b}
Test Input Signal	-20 dBm	-20 dBm	-20 dBm	-20 dBm	-20 dBm
Test Output Signal	-20 dBm	-20 dBm	-20 dBm	-20 dBm	-20 dBm
Maximum Input Power (without damage)	+15 dBm	+15 dBm	+15 dBm	+15 dBm	+15 dBm
Gain Stability	0.25 over 24 hrs	0.25 over 24 hrs	0.25 over 24 hrs	0.25 over 24 hrs	0.25 over 24 hrs
RF Link Gain (nominal)	9 dB ^a	9 dB ± 3 dB ^a	9 dB ^a	20 dB ^a	9 dB ± 3 dB ^a
Output IP3	10 dBm ^{†c}	10 dBm ^{†c}	11 dBm ^{†c}	14 dBm ^{†c}	11 dBm ^{†c}
Input IP3	11 dBm ^{†c}	11 dBm ^{†c}	12 dBm ^{†c}	4 dBm ^{†c}	12 dBm ^{†c}
Input P1dB	-1 dBm	-1 dBm	-1 dBm	-8 dBm	0 dBm
Noise Figure	19 dB ^{†a}	19 dB ^{†a}	31 dB ^{†b}	15 dB ^{†a}	20 dB ^{†a}
SFDR	110 dB Hz 2/3 ^{†b}	110 dB Hz 2/3 ^{†b}	103 dB Hz 2/3 ^{†b}	109 dB Hz 2/3 ^{†b}	110 dB Hz 2/3 ^{†b}

^a nominal input power @ 0 dB optical loss ^b nominal input power @ 1 dB optical loss ^c nominal output power @ 5 dB optical loss ^d 0dB variable gain offset [†] typical

Optical Performance Characteristics

Optical Performance Characteristics

	Rack Module Fixed Gain Link	Rack Module Variable Gain Link	Rack Module Fixed Gain Short Haul Link	Rack Module High Gain Link	OEM Module Fixed Gain Link
Laser Type	DFB	DFB	FP (Fabry Perot)	DFB	DFB (FP option)
Optical Wavelength	1310 nm ± 20 nm (1550nm/CWDM options)	1310 nm ± 20 nm (1550nm/CWDM options)	1310 nm ± 20 nm	1310 nm ± 20 nm (1550nm/CWDM options)	1310 nm ± 20 nm (1550nm/CWDM options)
Optical Power Output	4.5 dBm (nominal)	4.5 dBm (nominal)	4.5 dBm (nominal)	4.5 dBm (nominal)	4.5 dBm (nominal)
Optical Connector	FC/APC (E2000 and SC options)	FC/APC (E2000 and SC options)	FC/APC (E2000 and SC options)	FC/APC (E2000 and SC options)	E2000/APC (FC/APC and SC options)

