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Japanese BS Prime Focus LNB

Model No. AKE1-LC

RF Input

Input Frequency Range	11.7 ~ 12.2 GHz
Input Interface	WR75 Waveguide
Input VSWR	3.5 : 1 (Max.) @ Room Temperature

IF Input

Output Frequency Range	1022 ~ 1522 MHz
Output Connector Type	75 Ω Female Connector
Output VSWR	1.7 : 1 (Max.) @ Room Temperature

Local Oscillator

LO. Frequency	10.678 GHz
LO. Frequency Stability	\pm 500 KHz (Max.) @ Room Temperature \pm 1.0 MHz (Max.) @ -40 $^{\circ}$ C ~ +60 $^{\circ}$ C
LO. Frequency Phase Noise	-65 dBc/Hz @ 1KHz (Max.) -75 dBc/Hz @ 10KHz (Max.) -95 dBc/Hz @ 100KHz (Max.) -110 dBc/Hz @ 1MHz (Max.)

Conversion Performance @Room Temperature

Conversion Gain	53 (Min.) 63 dB (Max.)
Gain Variation	4 dB p-p (Max.)
Gain Flatness (across any 26 MHz segment)	1 dB (Max.)
Noise Figure	0.4 dB (Typ.)
Image Rejection	45 dB (Min.)

Power Requirements

DC Current Consumption:	120 mA (Max.)
Operating Voltage	-12 ~ 24 Vdc

Environmental

Operating Temperature Range	-40 $^{\circ}$ C ~ +60 $^{\circ}$ C
Storage Temperature Range	-55 $^{\circ}$ C ~ +80 $^{\circ}$ C