

CANTADA



Constellation CMSR-1 Source Reference Generator

Advantages

- ✓ Base Station Fixed Reference Source
- ✓ Test Equipment Reference
- ✓ 10 MHz adjustable Output levels
- ✓ 1pps adjustable duty cycle
- ✓ Synchronized Outputs

Details

The CMSR-1 Source Reference integrates an Oven Controlled Crystal Oscillator and 1 pps signal in a compact form factor. The CMSR-1 is ideal for local synchronization between down converters and demodulators. The 10 MHz signal is adjustable over 30 dB of range with a maximum output of +12 dBm. The 3.3-volt 1pps signal has a nominal 10/90 duty cycle but can be incremented or decremented by 15 mS steps. The unit is housed in a powder coated aluminum extrusion to minimize the effects of weathering. The low power consumption allows the device to be powered with a 24-volt AC wall adapter. The CMSR-1 is ideal when timing is critical, and GPS is either unavailable or not required.



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Specifications

10 MHz Sinewave	Min	Typical	Max
Output Level Range	-18 dBm	-	12 dBm
Phase Noise @ 10 kHz	-	-130 dB	-110 dB
Accuracy	-	100 ppb	
Impedance (BNC)	-	50 Ω	
Return Loss	-	10 dB	

1 pps	Min	Typical	Max
Pulse Duration	-	0.1 Sec	-
Rise Time	-	10 ns	18 ns
Fall Time	-	10 ns	18 ns
Level High (vdc)	3.0	3.3	3.6
Level Low (vdc)	0	0.4	-
Impedance (SMA)	-	50 Ω	-

Power	Min	Typical	Max
External (AC wall adapter)	-	24 VDC	-
Physical Dimensions	1 in x 6 in x 7 in		