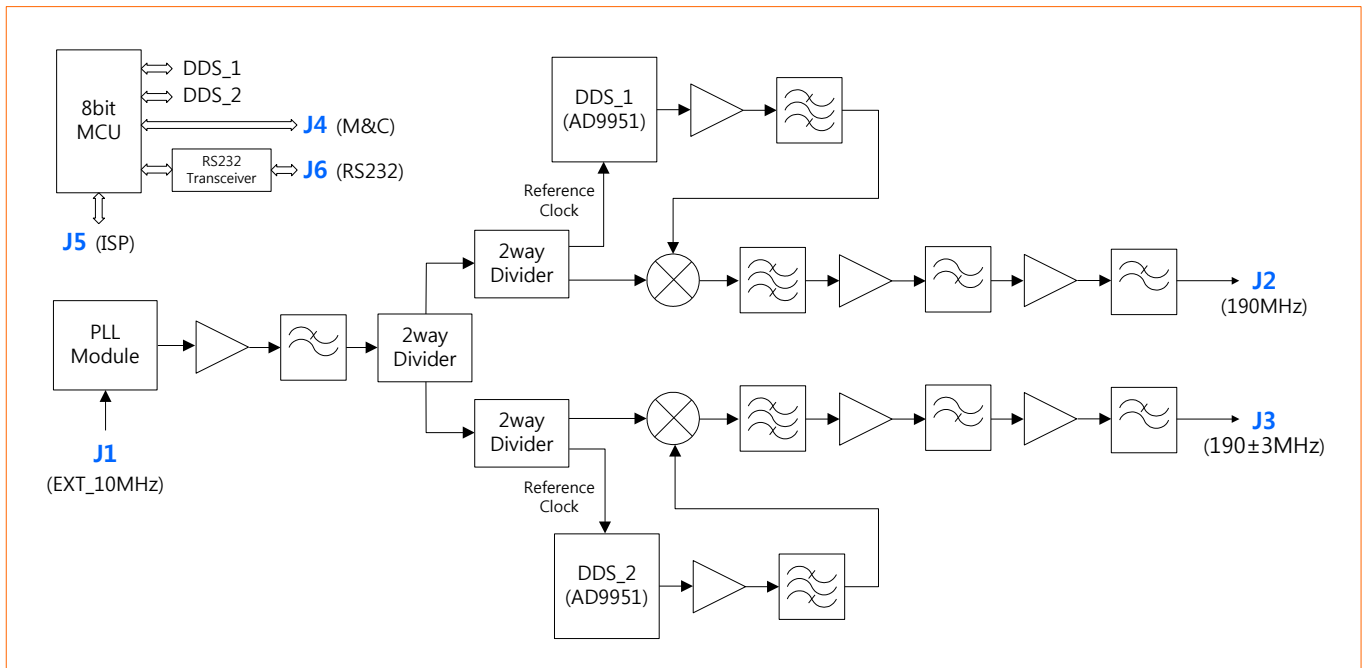
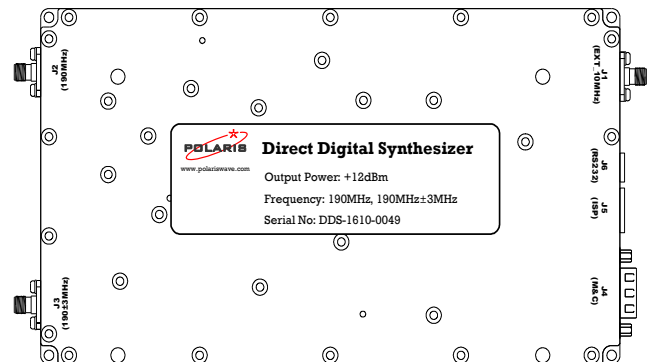


Direct Digital Synthesizer



Features

- ❖ Two frequency generators consisting of AD9951 DDS chips and mixers
- ❖ User-controllable frequency offset
- ❖ Built-in PLL module for AD9951 reference clock and mixer LO signal
- ❖ Built-in 8bit MCU for AD9951 control and external master MCU interface
- ❖ Frequency control with simple ASCII characters via RS232 interface
- ❖ Two output ports
 - J2: 190MHz
 - J3: 190±3MHz (1Hz frequency resolution)
- ❖ Output power
 - +12dBm
- ❖ Spurious suppression
 - ≤ -50 dBc



Applications

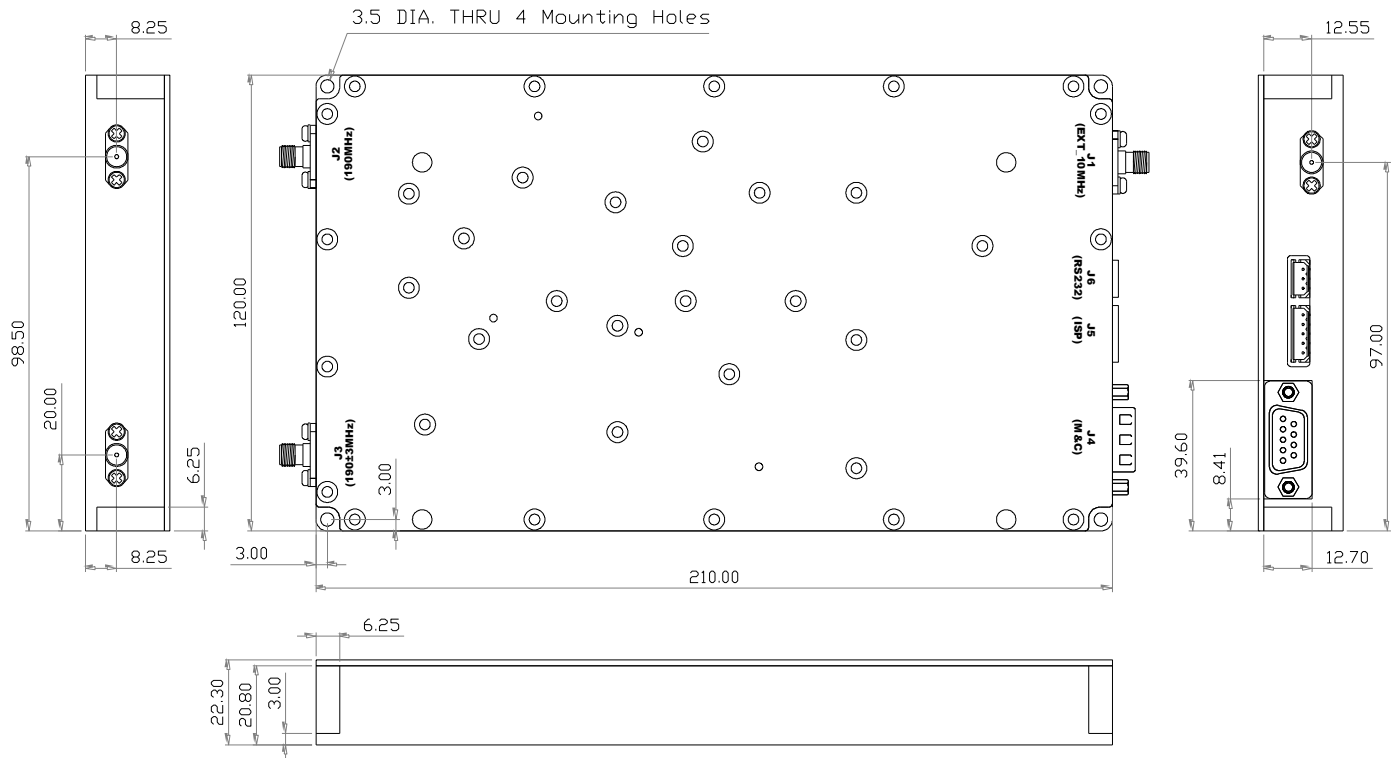
- ❖ Agile LO frequency synthesizer
- ❖ Programmable clock generator
- ❖ Test and measurement equipment
- ❖ Acousto-optic device drivers

Specifications

Parameters			Specifications		Remarks
External reference signal input	Frequency		10MHz		
	Power		+7dBm		
Output	Frequency	J2	190MHz		
		J3	190±3MHz (1Hz Resolution)		
	Power		+12dBm		
Spurious suppression			≤ -50dBc		
Supply voltage			+6Vdc		
Current consumption			+2.0A max.		
Connectors	EXT_10MHz	J1	SMA (F), ST, 50Ω		Input, External 10MHz reference signal
	190MHz	J2	SMA (F), ST, 50Ω		Output, 190MHz
	190±3MHz	J3	SMA (F), ST, 50Ω		Output, 190±3MHz (1Hz frequency resolution)
	M&C	J4	D_SUB_9pin (Mail)		External master MCU interface and Power supply
			P1: GND P3: MCU_EN P5: +6Vdc P7: MCU_CLK P9: +6Vdc	P2: MCU_SDO P4: N/C P6: MCU_SDIO P8: PLL_LD	
	ISP	J5	Molex_2.54mm_6pin (Header)		Program Download
RS232	J6	Molex_Header_2.54mm_3pin		Remote Control	
		P1: MCU_TX P3: GND	P2: MCU_RX		
Dimension (mm)			210(L) x 120(W) x 22.3(H)		

Outline Drawing

All dimensions are in millimeters.



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