

101327C

CI500-/500-5/200-10/100-10/5-10 Pulse Compressor Module

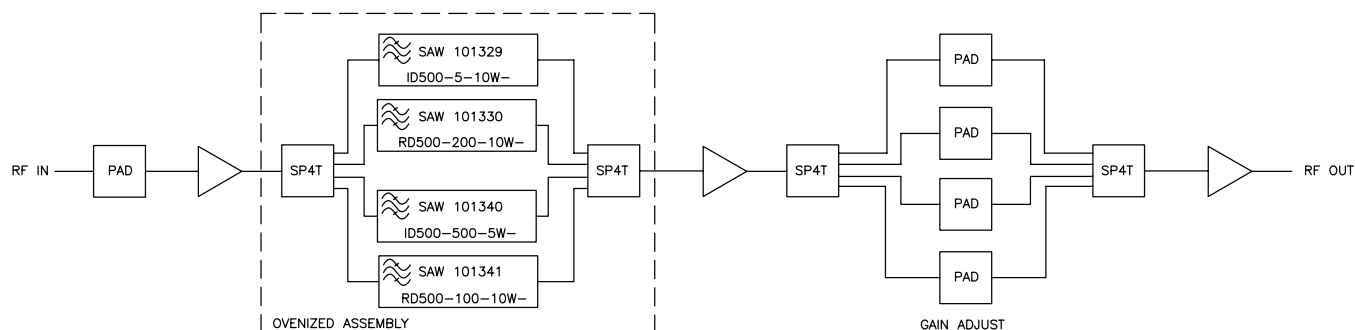
Specifications

Parameter	Symbol	Unit	101340	101330	101341	101329
Compressor Component			101340	101330	101341	101329
Center Frequency	F_0	MHz defined	500	500	500	500
Bandwidth	B	MHz defined	500	200	100	5
Dispersion	T	μ sec defined	5	10	10	10
Delay	T_0	μ sec typ	4.76	7.087	7.444	7.258
Slope	S_0	μ sec/MHz typ	-0.01	-0.0496	-0.098	-2
Pulse Width at -3 dB		μ sec max	0.0024	0.0063	0.0124	0.237
Sidelobes for $ t - T_0 < T$		dB max	-20	-21	-17	-21
Time Spurious for $ t - T_0 > T$		dB max	-50	-56	-60	-52
Processing Gain		dB min	32	31	28	15
Pulse Gain		dB min	7	7	7	7
Power In for -1 dB Comp		dBm min	10	10	10	10
Dynamic Range		dB min	80	80	80	80
Return Loss		dB min	10			
DC Power	15V @ 350mA, 5V @ 150mA, Oven -15V @ 600mA at 22 °C, 2A Warmup					

Notes

Switched Dispersive Filter Module providing matched filtering and windowing of chirped input waveforms. Filters are maintained at constant temperature for stable operation. Gain stages adjust insertion loss of each filter signal path.

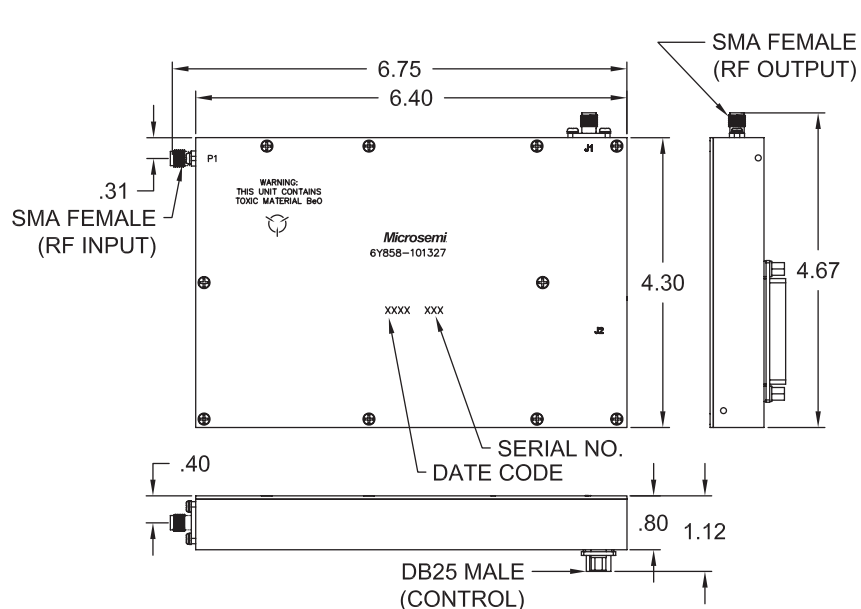
System Block Diagram



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Package Outline



DB25 PINOUT

PIN	FUNCTION
1,14	-15 VDC, 600mA TYP. (2A MAX)
2,12,15	GND
3	+15 VDC, 350mA
4	EXT THERMISTOR
5	500 MHz SELECT
6	200 MHz SELECT
13	+5 VDC, 150mA
16	EXT THERMISTOR
17	\MODE ENABLE
18	100 MHz SELECT
19	5 MHz SELECT



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