

Echoes Canceller

WSCE

The Repeater Equipments of Wish Soluciones offer the possibility of incorporating our excellent adaptive Echoes Canceller, that operates with input signal-to-echo ratios of -20 dB being the output MER on the order of 25 dB for extreme signal-to-echo ratios, with a minimum cancellation on the order of 40 dB.

Gap-filler Covertel I/T24, I/T30 (working in the isofrequency mode) and Gap-filler Covertel I24, I30 enable to incorporate echoes canceller in those cases in which it is not possible to obtain the wanted isolation between the receiving and transmitting systems and feedback takes place.

Technical Specifications

Identifier	WSCE
Minimum input signal-to-echo ratio	-20 dB
Minimum cancellation	40 dB
Cancellation technique	Adaptive cancellation by means of LMS algorithm
Cancellation window	1 μ s
Sampling rate	56 Ms/s

Output MER depending on the input power and the input signal-to-echo ratio.

Pin (dBm) \ SE (dB)	-80	-75	-70	-65	-60	-55	-50	-45	-40	-35	-30
0	21	25	29	31	33	34	34	34	34	34	34
-2	21	24	29	31	33	33	34	34	34	34	34
-4	20	24	29	30	33	33	34	34	34	34	33
-6	20	24	29	30	32	33	33	33	33	33	31*
-8	20	24	28	30	32	32	33	33	33	33	29*
-10	20	24	28	29	31	31	32	32	32	32	25*
-12	20	23	27	28	30	31	31	31	31	30	21*
-14	20	23	26	28	29	30	30	30	29	28*	18*
-16	19	22	25	26	28	28	28	28	27	25*	17*
-18	19	21	24	25	26	27	27	27	25*	21*	
-20	19	21	23	24	24	25	25	25	22*	18*	

* **Advice:** Use a 10 dB fixed attenuator at the input of the equipment to improve the qualities

NOTE: MXA Signal Analyzer N9020A. Agilent Technologies

Output MER depending on the input power for different signal-to-echo ratios

