

ALS EQUIPMENT

TECHNICAL DETAILS

	ALS standard and High Power							
	ALS6L	ALS 6U	ALS11	ALS13	ALS15	ALS18	ALS23	ALS38
Frequency band (MHz)	5925-6425	6425-7110	10700-11700	12750-13250	14400-15350	17700-19700	22000-23600	37000-39500
Channel spacing/type of modulation	28MHz/128BCM	28MHz/128BCM	40MHz/128BCM	28MHz/128BCM	28MHz/128BCM	27.5MHz/128BCM 55MHz/32BCM	28MHz/128BCM 56 MHz/32 BCM	28MHz/128BCM 56 MHz 32BCM
BER 10-3 (dBm) 128 BCM	-72	-72	-71	-71	-71	-68	-67	-65
BER 10-6 (dBm) 128 BCM	-71	-71	-70	-70	-70	-67	-66	-64
BER 10-3 (dBm) 32 BCM						-73	-72	-70
BER 10-6 (dBm) 32 BCM						-72	-71	-69
S/N BER 10-6 128BCM (dB)	25	25	25	25	25	25	25	25
S/N BER 10-6 32BCM (dB)						19	19	19
C/I 1dB threshold degradation BER=10-6 Co-channel (dB)	34 128 BCM					34 128 BCM 29 32 BCM		
C/I 3dB threshold degradation BER=10-6 Co-channel (dB)	30 128 BCM					30 128 BCM 25 32 BCM		
Max input signal BER 10-3	-20dBm							
Symbol rate based on the modulation used	STM-1 128 BCM: Gross bit rate/log2(128): 169,037MBit/s/7=24,15 Mbit/s					STM-1 128 BCM: 169,037MBit/s/7=24,15 Mbit/s STM-1 32 BCM: 175,662MBit/s/5= 35,13 Mbit/s		
MTBF	105.000 hours per terminal 1+0 (standard version)							
Noise figure (dB)	3,5	3,5	4,0	4,0	4,0	6,0	6,5	8,5

32/128BCM is SW selectable without HW change