

MLE300BLE

Line Extender Module

5-40/54-1002 MHz

Module only specifications unless noted

Standard RF Specifications				
Parameter	Units	Forward	Reverse	Notes
Pass Band	MHz	54-1002	5-40	
Amplifier Type	-	GaAsFET PD	Silicon	
Flatness	dB	+/-0.75	+/-0.5	1,2
Minimum Full Gain	dB	40.6	25.7	3
Operational Gain	dB	39.6	24.7	4
Return Loss (typical)	dB	-16	-16	2
Noise Figure	dB	6.5	7.5	5
Test Points	dB	-30 (+/-1.2)	-30 (+/-1.0)	2
Loop Isolation (40-54 MHz)	dB	Better than -35		5
Hum Modulation @ 15 A	dBc	-60 (54-870 MHz) -58 (870-1002 MHz)	-60 (5-12 MHz) -65 (12-40 MHz)	
AC Bypass Current (continuous)	A	15		
DC Current Draw (maximum)	mA	850		
Distortion Measurements @ Rated Level				
Reference Frequencies	MHz	1002 / 870 / 750 / 550 / 54	T7-T12	
Output Levels	dBmV	49.5 / 48.9 / 48.7 / 47.4 / 44	35 (flat out)	
Channel Loading	NTSC	130	6	6
CTB	dBc	-63	-90	3
CSO (high side)	dBc	-74	-85	3
Cross Modulation	dBc	-60	-78	3

Notes:

1. Measured with 20.5 dB of simulated cable.
2. Measured using an Input EQ = MLE1000-15, Interstage Slope Pad = MPBNP10A-04, and 0 dB plug-ins for all remaining forward and return locations.
3. Measured using an Interstage Slope Pad = MPBNP10A-04 and 0 dB plug-ins for all remaining forward and return locations.
4. Includes a 1 dB loss from the Input EQ and a 1 dB loss from the Return EQ.
5. Measured using 0 dB plug-ins for all forward and return locations.
6. Distortions with 130 NTSC analog channels (no digital).

Accessories	
Factory Installed Plug-ins	Plug-in Series
Diplex Filters (not accessible thru the cover, field upgradeable)	MLE300XDF-01
Interstage Gain Pad = MPBNP10A-00	MPBNP10A
Interstage Slope Pad = MPBNP10A-04	MPBNP10A
Low Pass Filter (not accessible thru the cover, field upgradeable)	MLERF100104
Return Roll Corrector (not accessible thru the cover, field upgradeable)	MLE1202RRC
AC Power Pass Jumpers (In/Out)	CJT002
FUSE 1 = 25 Amp Auto Fuse	0189940-25
230 V AC Crowbar Surge Protector (Used only in a deep lid line extender housing)	MLE300SATCB
Required Plug-ins	Plug-in Series
Input Pad	MPBNP10A
Input EQ	MLE1000
Return Output Pad	MPBNP10A
Return EQ	MPBN6REF42
Optional Plug-ins	Plug-in Series
Plug-in diplex filter options include 40/51, 42/54, 55/70, 65/86 and 85/105 MHz.	-

Line Extender Housing Upgrade Instructions	
Original LE Housing Specifications	
Type of Housing	Amp Capacity
STARLINE JLX, BLE	10 Amp version / 15 Amp version
Upgrade Instructions:	
<ol style="list-style-type: none"> 1. If the line extender housing is a 10 Amp version, replace the seizure assemblies with the Motorola kit part number BLE-15A. 2. If the line extender housing is a 15 Amp version, the line extender housing has already been upgraded and nothing needs to be done. 	
Upgraded LE Housing Specifications	
Type of Housing	Amp Capacity
STARLINE JLX, BLE	15 Amps