

750 MHz In-line Equalizer

Description

The 750 MHz in-line equalizers (LEQ's) are passive devices that correct for excess down tilt caused by cable attenuation in the subscriber network.

These devices are contained in a rugged, powder-coated aluminum-alloy housing, and contain circuitry to permit equalization of the forward band while simultaneously passing the reverse band with no equalization.

The 750 MHz, 30/46 and 40/51 split versions can provide different amounts of equalization by selecting the appropriate plug-in equalizer as listed in the table on the next page. This feature permits better control over tap output levels as determined by the system design.

The 750 MHz, 65/88 split LEQ is a fixed value version that compensates for 12 dB of cable loss at 750 MHz.



Specifications

	Units	LEQ 750	LEQ 750	LEQ 750
Bandwidth Split	MHz	30/46	40/51	65/88
Part Number	---	504064	538232	544185
Return Loss (min.)	dB	15.5 @ 5-30 MHz 16.5 @ 46-750 MHz	13.5 @ 5-10 MHz 14.5 @ 11-40 MHz 15.0 @ 51-750 MHz	15.5 @ 5-10 MHz 16.0 @ 11-65 MHz 16.0 @ 88-750 MHz
Cable Equalization	dB	9.0 through 18.0 in 1.5 dB steps	9.0 through 18.0 in 1.5 dB steps	13.5
Frequency Response	dB	±0.5	±0.5	±0.7
Tilt – Low Pass	dB	Flat	Flat	Flat
Insertion Loss	dB	See Plug-in Equalizer Chart	See Plug-in Equalizer Chart	Fixed Value 1.1 @ 5-65 MHz 12.0 @ 88 MHz 4.1 @ 550 MHz 3.4 @ 650 MHz 3.1 @ 750 MHz
Power Passing	Amps	6.0	6.0	6.0
Hum Modulation	dB	-70 @ 6 A	-70 @ 6 A	-70 @ 6 A



Model LEQ 750

750 MHz In-line Equalizer

Plug-In Equalizer

Insertion Losses 9.0 – 18.0 dB (Values include housing and plug-in equalizer loss)

Value	5 MHz	30 MHz	40 MHz	46-51 MHz	550 MHz	650 MHz	750 MHz	Part Number
9.0	0.8	0.8	0.8	8.9	3.7	1.7	2.5	501225
10.5	0.8	0.8	0.8	10.1	3.9	1.8	2.5	501226
12.0	0.8	0.8	0.8	11.2	4.1	1.9	2.5	501227
13.5	0.8	0.8	0.8	12.4	4.4	2.1	2.5	501228
15.0	0.8	0.8	0.8	13.5	4.6	2.2	2.5	501229
16.5	0.8	0.8	0.8	14.7	4.9	2.3	2.5	501230
18.0	0.8	0.8	0.8	15.9	5.1	2.4	2.5	501231

Note: The losses stated in this table are typical and are intended for use in system design.

Ordering Information

- Order LEQ 750 by part number (reference system bandwidth split).
- Order Plug-in equalizers as necessary. Part number LEQ 750 - * (*denotes equalizer value), specify value.



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