

# 5-3000MHz

## ECONOMY "L" BAND SATELLITE SPLITTERS

MCR Broadband ES series LEGACY L band signal splitters are compatible with the transmission requirements of analog and/or digitally formatted RF signals within the wide 5-3000Mhz band pass. The ES series delivers low cost with high performance. It allows the transmission of DBS and CATV signals, providing off-air L band frequency pass with consistent linear attenuation and other RF transmission parameters. The product line's diode directed DC powering pass can be configured for single port pass, ES-10xD, or all ports power pass ES-20xD. This DC powering pass provision allows for coaxial fed powering of LNBs, multiswitches or preamplifiers.



Full spectrum operation is delivered from 5-3000Mhz, utilizing MCR's ferrite-less PCB designs.

Options provide for DC Passing via one port, ES-10xD or all ports, ES20xD. DC bypass circuitry allows DC powering to be isolated from the RF circuitry.

Continues DC power passing specification provides up to 1700mA @ 28Vdc continuous conductivity from input to single output, with diode steering.

Patent pending 340° gold plated beryllium copper center conductor seizing inserts virtually eliminate causes of signal degradation at ports.

Polished tin-plated die-cast housings with tin-plated copper and soldered back plates provide excellent -110dB RFI product ingress integrity and long term environmental survivability.

Both vertical and horizontal F ports are precision machine threaded and are on 1.0" centers.

Housing design maintains water tight integrity in an operational environment up to 30psi of internal pressure.

Temperature hardened components provide stable operation from -40°C (-40°F) to 85°C (185°F).

Products conform to CEA-587 F connector color coding requirements and all applicable ASTM/SCTE specifications in effect at the time of manufacture.

RoHS compliant product available upon request.

MODEL #	ES-x02D*		ES-x03D*		ES-x04D*		ES-x06DV*		ES-x08DV*	
Description	2-Way		3-Way		4-Way		6-Way		8-Way	
	Typical	QA	Typical	QA	Typical	QA	Typical	QA	Typical	QA
INSERTION LOSS (all values in dB)										
5 MHz	3.5	5.0	7.0	8.0	8.3	9.0	10.0	11.0	11.5	12.0
950 MHz	3.8	5.0	7.5	8.5	8.5	9.5	10.5	11.5	12.5	13.0
1450 MHz	4.2	5.0	7.8	8.7	9.0	9.7	12.0	13.0	13.5	14.0
2150 MHz	4.5	5.0	8.0	9.0	9.3	9.8	15.5	16.0	15.0	16.0
3000 Mhz	4.9	5.0	8.7	9.2	9.8	10.0	16..8	17.0	17.0	18.0
FLATNESS (all values in dB)										
5-2450Mhz	1.8	2.0	1.8	2.0	1.8	2.0	1.9	2.0	1.9	2.0
5-860(6Mhz)	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
900-2150Mhz(25Mhz)	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
INPUT RETURN LOSS (all values in dB)										
5 MHz	10.5	12.0	9.5	12.0	10.5	12.0	10.5	12.0	10.5	12.0
950 MHz	11.0	12.0	10.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0
1450 MHz	11.5	12.0	12.5	12.0	11.5	12.0	11.5	12.0	11.5	12.0
2150 MHz	11.8	12.0	11.0	12.0	11.8	12.0	11.8	12.0	11.8	12.0
3000 Mhz	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
OUT RETURN LOSS (all values in dB)										
5 MHz	10.5	12.0	10.5	12.0	10.5	12.0	10.5	12.0	10.5	12.0
950 MHz	11.0	12.0	11.0	12.0	11.0	12.0	12.0	12.0	12.0	12.0
1450 MHz	11.5	12.0	11.5	12.0	11.5	12.0	12.0	12.0	12.0	12.0
2150 MHz	11.8	12.0	11.8	12.0	11.8	12.0	11.0	12.0	11.0	11.0
3000 Mhz	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
PORT TO PORT ISOLATION OUTPUT (all values in dB)										
5 MHz	18.0	17.0	18.0	17.0	18.0	17.0	21.0	17.0	21.0	17.0
950 MHz	23.0	21.0	23.0	21.0	23.0	21.0	22.0	21.0	22.0	21.0
1450 MHz	23.0	21.0	23.0	21.0	23.0	21.0	22.0	21.0	22.0	21.0
2150 MHz	23.0	20.0	23.0	20.0	23.0	20.0	21.0	20.0	21.0	20.0
3000 Mhz	21.0	18.0	21.0	18.0	21.0	18.0	19.0	18.0	19.0	18.0
DC POWERING* (all values in VDC)										
One Port DC Pass ES-1xx	1650mA@28Vdc		1650mA@28Vdc		1650mA@28Vdc		1650mA@28Vdc		1650mA@28Vdc	
All Ports DC Pass ES-2xx	1650mA@28Vdc		1650mA@28Vdc		1650mA@28Vdc		1650mA@28Vdc		1650mA@28Vdc	
GENERAL PRODUCT SPECIFICATIONS										
Weight (grams)	1.5 oz(42g)		2.1 oz(59g)		2.2 oz(59g)		4.2 oz(119g)		4.4 oz(125g)	
Master Package	300		200		200		100		100	

Specifications subject to change without notice

