

1GHz HI-Q DIGITAL SPLITTERS Horizontal Series



MARATHON Passives have been engineered and manufactured to provide the highest performance and reliability. They ensure the best quality signal distribution possible for current HDTV, DOCSIS Data, Digital Voice and future interactive Broadband Networks. The Marathon engineering team has a proven 30 year track record in the Broadband Cable industry and offers the best class in mechanical and consistent RF performance with high quality components and strict QC metrics.

They are available in a full line of housing configurations for headend, commercial or subscriber applications. *Your subscribers demand the best ... Install Marathon Drop Passives.*

Features & Benefits

- Consistent, high RF performance from 5 1002 MHz through extreme temperatures
- Enhanced 15 42 MHz return path for superior output return loss and port to port isolation performance
- 6 kV ring wave surge protection on all ports
- Ultra linear ferrites prevent inter-modulation where high level return carriers can affect forward path performance
- E180 series Enhanced 180° contacts engineered for maximum conductor contact and superior retention; design allows insertion without marring the center conductor
- High grade voltage blocking capacitors on all ports to eliminate core saturation and prevent hum modulation
- Solid Zinc cast housing with Bright Tin triple plating for durability in harsh environments 8-Way only
- Universal drive Mounting and Ground Port screws packaged with each splitter
- Sealed ports to prevent moisture ingress to 15 PSI
- Meets or exceeds ANSI/SCTE 153 2008 for outdoor use
- MoCA compliant



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MARS1008H MARS1012H MARS1016H Frequency Parameter (MHz) Тур QA QA Тур QA Тур 5 - 15 10.8 11.0 13.7 13.5 13.7 13.5 15 - 42 10.8 11.0 13.5 13.7 13.5 13.7 Insertion Loss 50 - 550 11.0 11.2 14.6 15.8 14.5 14.7 Maximum (dB) 550 - 870 11.6 12.0 14.8 15.0 14.7 14.9 870 - 1002 12.0 12.5 15.5 15.1 15.0 15.2 5 - 15 25 22 22 20 22 20 15 - 42 30 22 25 22 25 22 Return Loss 50 - 550 25 20 18 20 18 20 Input Minimum (dB) 550 - 870 25 20 20 18 20 18 870 - 1002 24 20 20 18 20 18 5 - 15 23 20 21 20 18 18 15 - 42 35 28 23 20 21 20 Return Loss Output 50 - 550 28 20 22 20 21 20 Minimum (dB) 550 - 870 25 20 21 18 22 20 870 - 1002 24 20 19 18 22 20 5 - 15 28 24 24 22 21 23 15 - 42 38 32 32 28 30 26 Port/Port Isolation 29 (Output/Output) 50 - 550 26 28 24 28 24 Minimum (dB) 24 550 - 870 27 24 26 26 24 870 - 1002 27 23 25 23 24 23 RFI (dB) 5 - 1002 -130 -120 -130 -120 -130 -120 5 - 1002 75 Ohm Impedance -45 dBmV after 6 kV ring wave surge. Measuring with a 55 dBmV return input Spurious Signals Including 2nd Harmonics carrier. 6 kV Ring Wave per IEEE C62.41-1991 Category A3 Surge Protection 15 PSI Waterproof test (Min) -40°C to +60°C **Operating Temperature** 1000 hours of salt spray per ANSI/SCTE 143 2007 **Corrosion Resistance**

HORIZONTAL SERIES SPECIFICATIONS