

REGAL-TAPS | Regal® Tap Series



1.2 GHz Full-Feature Equalizable Taps

- Support DOCSIS® 3.1 expanded bandwidth up to 1218 MHz
- Improve network performance with signal conditioning plug-ins
- High quality RF connection with auto-seize F-connectors
- Maintain existing Regal installed base with compatible faceplate upgrades
- Faceplate only options for cost effective upgrades to existing Regal deployments
- High level of network resilience with 6kV surge resistance on feederline and F-ports
- Maintain feederline RF and AC connections with faceplate removed with integrated bypass capability

The ARRIS Regal® RMT2120 1.2 GHz series equalizable taps offer improved return path performance for advanced two-way HFC systems while maintaining backward compatibility with the previous Regal installed base. In addition to mechanical backwards compatibility to existing Regal tap housings, we now offer faceplate only options for plant upgrades. The faceplate only option allows the technician to easily upgrade an existing location with a simple faceplate change. This solution provides significant product cost savings, as well as reduced shipment cost, by eliminating unneeded extra housings being built and shipped.

Additional improvements over the existing family of Regal 1 GHz taps include the ability for drop signal conditioning with optional plug-in, field configurable modules that include cable equalizers, return path attenuators, and cable simulators. These plug-ins allow for drop signal conditioning without affecting the main feederline path. The Regal 1.2 GHz taps also come equipped with an auto-seize F-connector which improves system reliability by providing increased drop center conductor clamping force and a greater surface/contact area over standard F-connectors.

Product Classification

Regional Availability	Asia Australia/New Zealand EMEA Latin America North America
Product Type	RF tap

Electrical Specifications

Return Loss at Frequency Band, tap	16 dB @ 5–9 MHz, 16 dB @ 10–749 MHz, 16 dB @ 750–1000 MHz, 16 dB @ 1001–1218 MHz
Hum Modulation at Operating Frequency	60 dB minimum @ 5–10 MHz, 65 dB minimum @ 11–750 MHz, 60 dB minimum @ 751–1000 MHz, 53 dB minimum @ 1001–1218 MHz
Isolation at Frequency Band, tap to tap	22 dB @ 5–9 MHz, 25 dB @ 10–85 MHz, 25 dB @ 86–300 MHz, 23 dB @ 301–749 MHz, 20 dB @ 750–1218 MHz
Power Passing at 60/90V, maximum	12 A
Surge Protection, F port	6 kV Combination/Ring Wave
Surge Protection, input/output ports	6 kV Combination/Ring Wave

Environmental Specifications

Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
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Standards Compliance

6/6 RoHS