OTS-RSU-1

2.3 GHz Wideband Redundancy Switch

DATASHEET SATCOM

Features

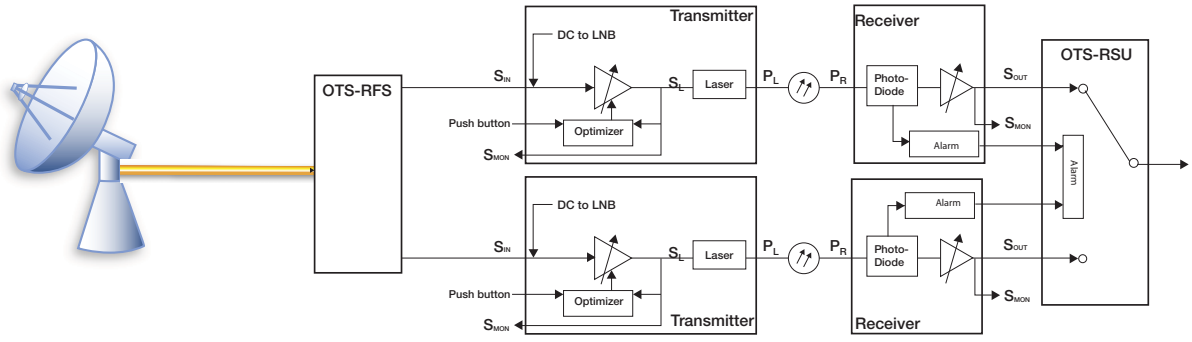
- DC to 2300 MHz satellite signals
- Automatic and manual redundancy modes
- 75 Ohm BNC
- SNMP monitoring and controll
- Fits in Optiva® enclosures, which support Daisy Chain™ video, audio and data links.
- Hot swap redundant power supplies virtually eliminate downtime
- CE Certified Device

DC to 2300MHz Wideband Redundancy Switch

Optiva® Wideband Redundancy Switch Unit (RSU) is optimized to perform in the DC to 2300 MHz frequency range providing transparent signal transportation for satellite antenna applications. The unique features of the OTS-RSU-1 series include simple push button, or automatic redundancy control which ensures consistent performance. As with all Emcore products, the highest quality components and modern production techniques insure that intra-facility links provide the highest performance as a cost-effective alternative to coaxial cable. They provide much longer transmission distances than copper cables, simplify network design, ease installation and even enhance immunity from EMI, RFI and lightning. The RSU take the high RF performance and diverse features of Emcore's Ortel technology and combine them into a compact package compatible with the Optiva® OT-CC-16 chassis.

System Design

Optiva® is a completely modular hot-swappable platform. Both 19" rack mount and compact tabletop or wall-mountable enclosures are available. The 19" rack-mount enclosure (Model OT-CC-16) can support up to 16 insert cards and provides a single power supply (Model PS-200), or a dual-redundant, hot-swappable power supply option. Compact enclosures are available with 1, 2 or 4 slots. The one slot (OT-DTCR-1) and two slot (OT-DTCR-2) enclosures both use an external power supply (PS-9012) and optionally have a standard 2-pin DC power connector for more custom applications. The four-slot 1 RU enclosure (OT-CC-4) uses an integrated power supply. The Optiva® family's existing wide range of video, audio and data transport products include a unique Daisy-Chain™ feature that multiplexes multiple electrical inputs onto a single fiber, thus resulting in an extremely capable, yet conveniently flexible, signal transport system.



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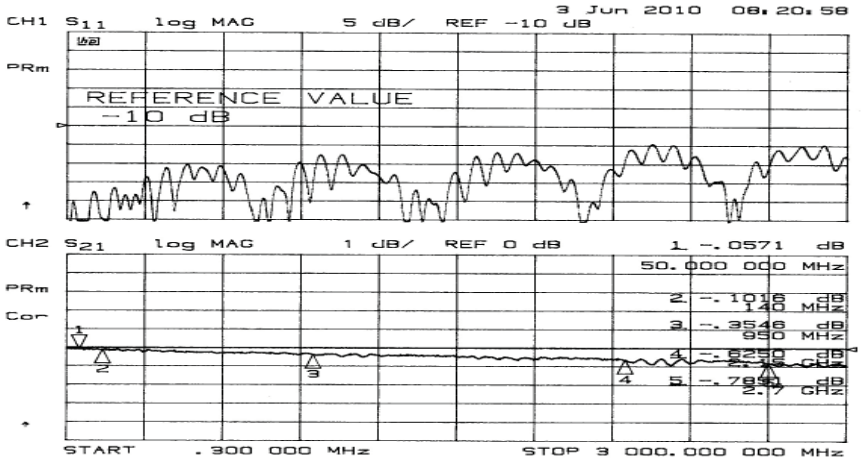
Wideband Redundancy Switch

SATCOM

Performance Highlights

Parameter	Min	Typical	Max	Units
Frequency Range	DC	-	2300	MHz
Insertion Loss 0 -2.3 GHz	--	--	0.9	dB
Isolation 0 - 2.3 GHz	60	65	--	dB
Return Loss 0 - 2.3 GHz	--	--	-13	dB
RF Power Handling (CW) 0 - 2.3 GHz	--	--	50	W

Typical S11 and S21



Ordering Information

Product Code	Specifications
OTS-RSU-1-B7	RSU, DC-2300 MHz, BNC 75 ohm
OTS-RSU-1-B7-BB	RSU, DC-2300 MHz, BNC 75 ohm, BNC-BNC Jumpers
OPV-CTLR-IC	NMS SNMP Controller Card & MIB for Optiva Family
OTP-1ETR-A2/A2	Optical Tcvr, 1Ch, Ethernet, SM, Dual LC
OT-CC-16	Chassis, Rack Mount, 16 Slot, 3RU, Front Access
OT-CC-16-01	Chassis, Rack Mount, 16 Slot, 3RU, Rear Access
PS-200-(xx)	Power Supply, 12Vdc, 100 to 240Vac, 50/60Hz, (Specify power cord (NA, EU, UK))
OT-CC-4-1U-(xx)	Chassis w/ built-in Power Supply, 1 RU, 4 slots, 110-240 AC input, Power Cord
OT-DTCR-1 / OT-DTCR-2	Chassis, flange-mount, w/ Power Supply, 1 slot / 2 slot

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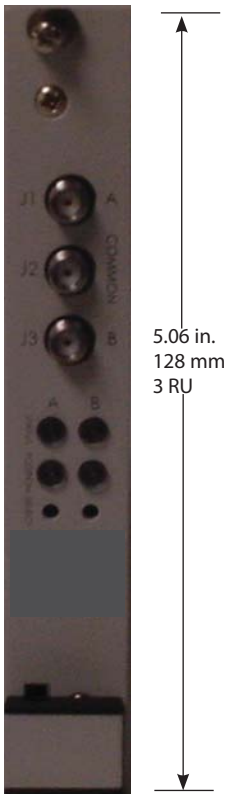
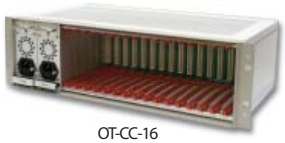
OTS-RSU-1



Enclosure Options



OT-CC-16

OT-CC-4

OT-DTCR-2 OT-DTCR-1

FCC PART 15 COMPLIANT

CE MADE IN USA

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