

10 & 40 Gbits/s Optical Receivers

NEW PRODUCT!

| MODEL | -3 dB BANDWIDTH | | VOLTAGE GAIN typical @ 1.55 μ m | POWER GAIN | | BIAS VOLTAGE | OPERATING CURRENT |
|-------------------|-----------------|---------------|--|------------|--------------|----------------------|-------------------|
| | min | typical | | min | typical | | |
| DSC-R401ER | 18.0 | 20 GHz | 100 V/W | 8 | 9 dB | + 5V / + 5V | ~ 55 mA |
| DSC-R402 | 10.0 | 11 GHz | 400 V/W | 15 | 20 dB | + 10V / + 8V | ~ 100 mA |
| DSC-R402HR | 7.5 | 8 GHz | 475 V/W | 15 | 20 dB | + 20V / + 8V | ~ 100 mA |
| DSC-R403 | 9.0 | 10 GHz | 1000 V/W | 25 | 30 dB | + 8V / - 1V | ~ 170 mA |
| DSC-R404 | 30.0 | 35 GHz | 35 V/W | 7 | 8 dB | + 5V / - 0.5V | ~ 75 mA |
| DSC-R405 | 12.0 | 15 GHz | 120 V/W | 10 | 12 dB | + 5V / - 5V | ~ 100 mA |

SPECIFICATIONS:

Equivalent Amplifier Transimpedance @ 50 Ω : Noise:

| | | |
|--------------------|---|----------------|
| DSC-R401ER: | 150 Ω inverting | 15-20 pA/rt Hz |
| DSC-R402: | 500 Ω non-inverting | 8-15 pA/rt Hz |
| DSC-R402HR: | 500 Ω non-inverting | 8-15 pA/rt Hz |
| DSC-R403: | 1600 Ω inverting | 20-25 pA/rt Hz |
| DSC-R404: | 60 Ω inverting | 20-25 pA/rt Hz |
| DSC-R405: | 150 Ω non-inverting, opt. inver. | 40-50 pA/rt Hz |

Power Dissipation: Low Frequency cutoff:

| | | |
|--------------------|-----------|------------------|
| DSC-R401ER: | ~ 275 mW | 50 KHz |
| DSC-R402: | ~ 800 mW | 30 KHz, opt. DC |
| DSC-R402HR: | ~ 800 mW | 30 KHz, opt. DC |
| DSC-R403: | ~ 1500 mW | 2 MHz |
| DSC-R404: | ~ 375 mW | 5 MHz |
| DSC-R405: | ~ 500 mW | 100 KHz for R405 |

Digital Sensitivity:

| | |
|--------------------|---------------------|
| DSC-R402: | 20.0 BER 10^{-10} |
| DSC-R402HR: | 20.5 BER 10^{-10} |

Wavelength Response: ~0.8 μ m -1.6 μ m
 Operating Temp: - 40 / +85 $^{\circ}$ C
 Storage Temp: - 40 / +85 $^{\circ}$ C

PART NUMBER DESCRIPTION

DSC-R40X-3-FC/UPC-K, Pigtail Fiber Package, Optical Return Loss >30 dB
 DSC-R40X-5-FC/UPC-K, Pigtail Fiber Package, Optical Return Loss >45 dB

