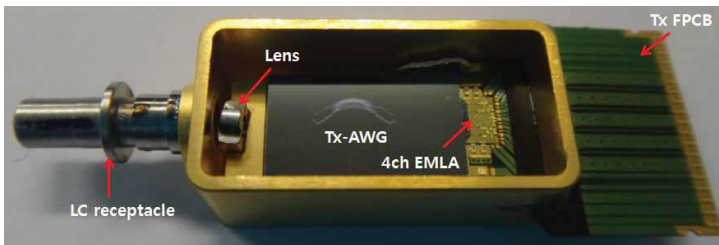


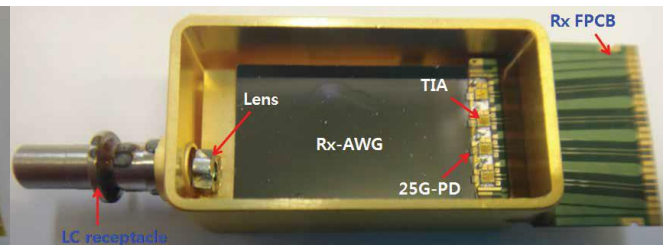
# 100G TOSA & ROSA

기술보유 기관	한국전자통신연구원	관련특허명 (등록(출원)번호)	<ul style="list-style-type: none"> <li>- 광모듈 (PR20140490US)</li> <li>- 광송신 및 광수신용 모듈에서 연성 인쇄회로기판 및 인쇄회로기판 간의 고속 RF 신호 연결방법 (PR20121086US)</li> </ul>
사업화 단계(TRL)	6 단계	키워드	100G, TSOA, ROSA

기술 개요	<ul style="list-style-type: none"> <li>• 클라이언트 100G CFP4/QSFP28 광트랜시버용 100G 광송신 및 광수신 서브모듈</li> <li>• 100GBASE LR/ER4 표준 호환</li> </ul>
기술 특징 (우수성)	<ul style="list-style-type: none"> <li>• 파장범위: 1295.56 ~ 1309.14 nm (800 GHz 간격)</li> <li>• 4ch 25 Gb/s EML 어레이 &amp; 4채널 discrete 25 Gb/s PIN-PD</li> <li>• Silica AWG for WDM Mux/DeMux</li> <li>• 고속 멀티채널 RF signal feedin용 Flexible PCB 적용</li> <li>• TOSA 출력세기: ~3 dBm @ 120 mA, DC</li> <li>• TOSA dynamic ER: ~8 dB</li> <li>• ROSA 수신감도: &lt; -10.6 dBm</li> <li>• 단일채널 변조속도: 25.78 Gb/s</li> <li>• TOSA 크기: 20.3×10.2×7.8 mm<sup>3</sup></li> <li>• ROSA 크기: 23.8×12.2×7.8 mm<sup>3</sup></li> </ul>
기술 적용 분야	<ul style="list-style-type: none"> <li>• 25G 광송신기 및 25G 광수신기</li> <li>• 100G CFP4/QSFP28 이더넷 트랜시버</li> <li>• 100GBASE-LR4/ER4 트랜시버</li> </ul>



100G TOSA



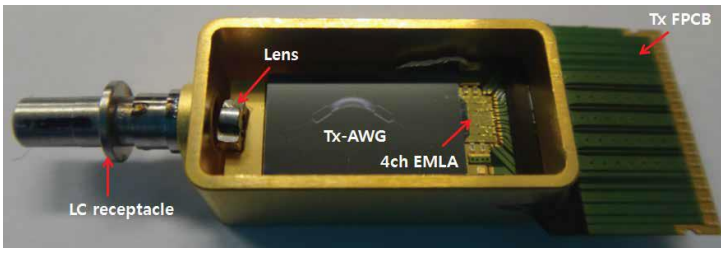
100G ROSA

# 100G TOSA & ROSA

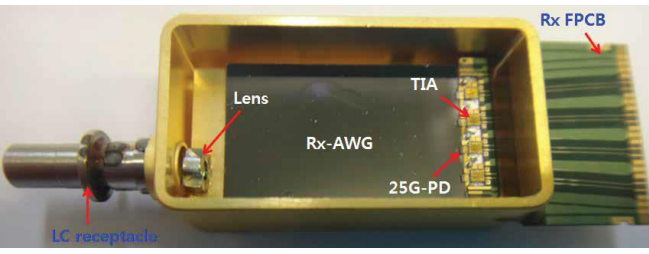
<b>Patent Number</b>	<ul style="list-style-type: none"> <li>• PR20140490US</li> <li>• PR20121086US</li> <li>•</li> </ul>	<b>Keywords</b>	<ul style="list-style-type: none"> <li>• 100G</li> <li>• TOSA</li> <li>• ROSA</li> </ul>
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## TECHNOLOGY BRIEF

<b>Technology Overview</b>	<ul style="list-style-type: none"> <li>• 100G TOSA &amp; 100G ROSA for 100G CFP4/QSFP28 Transceiver</li> <li>• Compliant with 100GBASE LR4/ER4 standard</li> </ul>
<b>Core Technologies and Advantages</b>	<ul style="list-style-type: none"> <li>• Wavelength range: 1295.56 ~ 1309.14 nm (800 GHz spacing)</li> <li>• 4ch 25 Gb/s EML array &amp; 4ch discrete 25 Gb/s PIN-PD</li> <li>• Silica AWG for WDM Mux/DeMux</li> <li>• Flexible PCB for high speed multi-channel RF signal feeding</li> <li>• TOSA output power: ~3 dBm @ 120 mA, DC</li> <li>• TOSA dynamic ER: ~8 dB</li> <li>• ROSA sensitivity: &lt; -10.6 dBm</li> <li>• Single channel modulation speed: 25.78 Gb/s</li> <li>• TOSA size: 20.3×10.2×7.8 mm<sup>3</sup></li> <li>• ROSA size: 23.8×12.2×7.8 mm<sup>3</sup></li> </ul>
<b>Application Area</b>	<ul style="list-style-type: none"> <li>• 25G Light Source &amp; 25G Receiver</li> <li>• 100G CFP4/QSFP28 Ethernet Transceiver</li> <li>• 100GBASE-LR4/ER4 Transceiver</li> </ul>



**100G TOSA**



**100G ROSA**