

## Compendium for Essential Requirements for Products under Transmission Division of TEC

<b>Table I: List of products and product variants</b>			
<b>Division: Transmission</b>			
Variants→ Products↓	<b>Variant1</b>	<b>Variant2</b>	<b>Variant2</b>
<b>DWDM</b>	DWDM	DWDM system with OTN DXC	
<b>SDH Equipment</b>	SDH Equipment	SDH Equipment with PCM	
<b>Multiplexing Equipment</b>	Versatile 2 Mbps MUX	2 Mbps PCM MUX	
<b>DXC</b>	O-E-O based	64 kb/s XC	OTN DXC

**Table I: List of parameters applicable to various interfaces and their international standards**

<b>Applicable to→ Test Parameter↓</b>	<b>64 Kbps</b>	<b>2 Mbps (E12)</b>	<b>8 Mbps (E22)</b>	<b>34 Mbps (E31)</b>	<b>45 Mbps (E32)</b>	<b>140 Mbps (E4)</b>	<b>STM-1 electrical</b>	<b>STM-1 Optical</b>	<b>STM-4 Optical</b>	<b>STM-16 Optical</b>	<b>STM-64 Optical</b>	<b>STM-256 Optical</b>
Nominal Bit Rate with Tolerance	G.703	G.703	G.703	G.703	G.703	G.703	G.703	G.957	G.957	G.957	G.957	G.693
Pulse Shape	G.703	G.703	G.703	G.703	G.703	G.703	G.703					
Operating Wavelength range								G.957	G.957	G.957	G.957	G.693
Input Port Return loss	G.703	G.703	G.703	G.703	G.703	G.703	G.703					
Output Jitter	G.703	G.823	G.823	G.823	G.824	G.823	G.825	G.783	G.783	G.783	G.783	G.783
Input Port Jitter Tolerance	G.823	G.823	G.823	G.823	G.824	G.823	G.825	G.825	G.825	G.825	G.825	G.825
DC Power					G.703							
Mean Launched power								G.957	G.957	G.957	G.691	G.693
Receiver Sensitivity								G.957	G.957	G.691	G.691	G.693
Receiver Overload								G.957	G.957	G.957	G.691	G.693

<b>Applicable to Test→ Parameter↓</b>	<b>OTU-1</b>	<b>OTU-2</b>	<b>OTU-3</b>	<b>OTU-4(OTL4.4)</b>
Nominal Bit Rate with Tolerance	G.709	G.709	G.709	G.709
Output port Jitter Generation	G.825 1	G.8251		
Input Port Jitter Tolerance	G.825 1	G.8251		
Receiver Sensitivity	G.959. 1, G.693	G.959. 1, G.693	G.959. 1, G.693	G.959.1, G.695
Mean Total Output Power	G.959. 1, G.693	G.959. 1, G.693	G.959. 1, G.693	G.959.1, G.695
Central frequency	G.959. 1, G.693	G.959. 1, G.693	G.959. 1, G.693	G.959.1, G.695
Minimum receiver overload	G.959. 1, G.693	G.959. 1, G.693	G.959. 1, G.693	G.959.1, G.695
Mean Total input Power	G.959. 1, G.693	G.959. 1, G.693	G.959. 1, G.693	G.959.1, G.695

<b>Table II: List of Test Parameters Applicable to Product variants and their International Standards</b>			
<b>Division: Transmission</b>			
<b>Applicable to→ Test Parameter↓</b>	<b>DWDM 10 Gbps</b>	<b>DWDM 40 Gbps</b>	<b>DWDM 100 Gbps</b>
Channel Spacing	G.694.1	G.694.1	G.694.1