

# SV-DAC-25GT5T5-XM

25Gbps, SFP28 Direct Attach Cable modules, distance up to 1m; 3m;5m.



## Features

- Up to 25.78125 Gbps data rate
- Up to 5 meter transmission
- Hot-pluggable SFP 20PIN footprint
- Improved Pluggable Form Factor(IPF) compliant for enhanced EMI/EMC performance
- Compatible to SFP28 MSA
- Compatible to SFF-8402 and SFF-8432
- Temperature Range: 0~ 70 °C
- RoHS Compatible

## Applications

- 25G Ethernet
- Cost-effective copper solution
- Lowest total system power solution
- Lowest total system EMI solution
- Optimized design for Signal Integrity

## Ordering Information

Part number	Description
<b>SV-DAC-25GT5T5-1M</b>	Starview SFP28 25Gbps Direct Attach Cable modules, distance up to 1m.
<b>SV-DAC-25GT5T5-3M</b>	Starview SFP28 25Gbps Direct Attach Cable modules, distance up to 3m.
<b>SV-DAC-25GT5T5-5M</b>	Starview SFP28 25Gbps Direct Attach Cable modules, distance up to 5m.

## High Speed Characteristics

Parameter	Symbol	Min	Typical	Max	Unit	Note
Differential Impedance	TDR	90	100	110	$\Omega$	
Insertion loss	SDD21	-22.48		-8	dB	At 12.8906 GHz
Differential Return Loss	SDD11	-12.45		See 1	dB	At 0.05 to 4.1 GHz
	SDD22	-3.12		See 2	dB	At 4.1 to 19 GHz
Common-mode to common-mode output return loss	SCC11			-2	dB	At 0.2 to 19 GHz
	SCC22					
Differential to common-mode return loss	SCD11	-12		See 3	dB	At 0.01 to 12.89 GHz
	SCD22	-10.58		See 4		At 12.89 to 19 GHz
Differential to common Mode Conversion Loss	SCD21-IL			-10	dB	At 0.01 to 12.89 GHz
				See 5		At 12.89 to 15.7 GHz
				-6.3		At 15.7 to 19 GHz
Channel Operating Margin	COM			-3	dB	

### Notes:

1. Reflection Coefficient given by equation  $SDD11(\text{dB}) < -16.5 + 2 \times \text{SQRT}(f)$ , with f in GHz
2. Reflection Coefficient given by equation  $SDD11(\text{dB}) < -10.66 + 14 \times \log_{10}(f/5.5)$ , with f in GHz
3. Reflection Coefficient given by equation  $SCD11(\text{dB}) < -22 + (20/25.78)*f$ , with f in GHz
4. Reflection Coefficient given by equation  $SCD11(\text{dB}) < -15 + (6/25.78)*f$ , with f in GHz
5. Reflection Coefficient given by equation  $SCD21(\text{dB}) < -27 + (29/22)*f$ , with f in GHz