

Series: QRM8-RA/QRF8-DV

Description: Q Rate® Slim Body Ground Plane Connector, R/A Terminal to Vertical Socket

Frequency Domain Data Summary

Table 1 - Single-Ended Connector System Performance Case 1 = Short Row; Case 2 = Long Row					
Case	Test Parameter	Configuration	Driver	Receiver	
1	Insertion Loss	GSG	QRM8_RA_38	QRF8_DV_38	3dB@ 15.0 GHz
	Return Loss	GSG	QRM8_RA_38	QRM8_RA_38	>10dB to 6.2 GHz
	Near-End Crosstalk	GAQG	QRM8_RA_36	QRM8_RA_38	<-20dB to 0.8 GHz
		GAGQG	QRM8_RA_38	QRM8_RA_42	<-20dB to 16.7 GHz
	Far-End Crosstalk	GAQG	QRM8_RA_36	QRF8_DV_38	<-20dB to 10.8 GHz
		GAGQG	QRM8_RA_38	QRF8_DV_42	<-20dB to 16.3 GHz
2	Insertion Loss	GSG	QRM8_RA_37	QRF8_DV_37	3dB@ 11.4 GHz
	Return Loss	GSG	QRM8_RA_37	QRM8_RA_37	>10dB to 8.9 GHz
	Near-End Crosstalk	GAQG	QRM8_RA_35	QRM8_RA_37	<-20dB to 0.5 GHz
		GAGQG	QRM8_RA_37	QRM8_RA_41	<-20dB to 17.2 GHz
		Xrow, GAG to GQG	QRM8_RA_37	QRM8_RA_38	<-20dB to 20.0 GHz
	Far-End Crosstalk	GAQG	QRM8_RA_35	QRF8_DV_37	<-20dB to 7.5 GHz
		GAGQG	QRM8_RA_37	QRF8_DV_41	<-20dB to 16.4 GHz
		Xrow, GAG to GQG	QRM8_RA_37	QRF8_DV_38	<-20dB to 20.0 GHz

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Table 2 - Differential Connector System Performance
Case 1 = Short Row; Case 2 = Long Row

Case	Test Parameter	Configuration	Driver	Receiver	
1	Insertion Loss	GSSG	QRM8_RA_36,38	QRF8_DV_36,38	3dB@ 16.4 GHz
	Return Loss	GSSG	QRM8_RA_36,38	QRM8_RA_36,38	>10dB to 8.1GHz
	Near-End Crosstalk	GAAQQG	QRM8_RA_34,36	QRM8_RA_38,40	<-20dB to 7.7 GHz
		GAAGQQG	QRM8_RA_36,38	QRM8_RA_42,44	<-20dB to 20.0 GHz
	Far-End Crosstalk	GAAQQG	QRM8_RA_34,36	QRF8_DV_38,40	<-20dB to 20.0 GHz
		GAAGQQG	QRM8_RA_36,38	QRF8_DV_42,44	<-20dB to 19.6 GHz
2	Insertion Loss	GSSG	QRM8_RA_35,37	QRF8_DV_35,37	3dB@ 12.5 GHz
	Return Loss	GSSG	QRM8_RA_35,37	QRM8_RA_35,37	>10dB to 10.2 GHz
	Near-End Crosstalk	GAAQQG	QRM8_RA_33,35	QRM8_RA_37,39	<-20dB to 2.8 GHz
		GAAGQQG	QRM8_RA_35,37	QRM8_RA_41,43	<-20dB to 20.0 GHz
		Xrow, GAAG to GQQG	QRM8_RA_35,37	QRM8_RA_36,38	<-20dB to 20.0 GHz
	Far-End Crosstalk	GAAQQG	QRM8_RA_33,35	QRF8_DV_37,39	<-20dB to 20.0 GHz
		GAAGQQG	QRM8_RA_35,37	QRF8_DV_41,43	<-20dB to 20.0 GHz
		Xrow, GAAG to GQQG	QRM8_RA_35,37	QRF8_DV_36,38	<-20dB to 20.0 GHz

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Bandwidth Chart – Single-Ended & Differential Insertion Loss

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