

Passives

Tests		Notes	Limits	
			min	max
Insertion Loss (Sdd21)		At f = 7.03125 GHz	-	15
Fitted Insertion Loss		a0	-0.75	0.5
		a1	0	17.96
		a2	0	10.25
		a4	0	7.91
		Overall FIL Status		
Insertion Loss Deviation	0.05-3.5 GHz	dB	-0.75	0.75
	3.5-7 GHz	dB	0.75-0.4286*(f)	0.4283*(f)-0.75
	7-10.5 GHz	dB	-2.25	2.25
	ILDrms	dBrms	-	0.3
Crosstalk	ICN	RMS, mV		9, 3 ≤ IL ≤ 7.65 12.75 – 0.49IL, 7.65 < IL ≤ 15.00
	ICMCN	RMS, mV	-	40
Differential Return Loss Cable Input (Sdd11)	0.05-2.5 GHz	dB	-	-12+1.71*sqrt(f)
	2.5-5.6 GHz	dB	-	-12+1.71*sqrt(f)
	5.6-8 GHz	dB	-	-6.7+13*log10(f/7)
	8-10 GHz	dB	-	-6.7+13*log10(f/7)
	10-12 GHz	dB	-	-6.7+13*log10(f/7)
	12-14 GHz	dB	-	-6.7+13*log10(f/7)
Differential Return Loss Cable Output (Sdd22)	0.05-2.5 GHz	dB	-	-12+1.71*sqrt(f)
	2.5-5.6 GHz	dB	-	-12+1.71*sqrt(f)
	5.6-8 GHz	dB	-	-6.7+13*log10(f/7)
	8-10 GHz	dB	-	-6.7+13*log10(f/7)
	10-12 GHz	dB	-	-6.7+13*log10(f/7)
	12-14 GHz	dB	-	-6.7+13*log10(f/7)
Common Mode Return Loss Cable Input (Scc11)	0.05-2 GHz	dB	-	-2
	2-4 GHz	dB	-	-2
	4-6 GHz	dB	-	-2
	6-8 GHz	dB	-	-2
	8-10 GHz	dB	-	-2
	10-12 GHz	dB	-	-2
	12-14.1 GHz	dB	-	-2
Common Mode Return Loss Cable Output (Scc22)	0.05-2 GHz	dB	-	-2
	2-4 GHz	dB	-	-2
	4-6 GHz	dB	-	-2
	6-8 GHz	dB	-	-2
	8-10 GHz	dB	-	-2
	10-12 GHz	dB	-	-2
	12-14.1 GHz	dB	-	-2
Common Mode to Differential Reflection Cable Input (Sdc11)	0.05-2 GHz	dB	-	-16+(2/3)*f
	2-4 GHz	dB	-	-16+(2/3)*f
	4-6 GHz	dB	-	-16+(2/3)*f
	6-8 GHz	dB	-	-16+(2/3)*f
	8-10 GHz	dB	-	-16+(2/3)*f
	10-12 GHz	dB	-	-16+(2/3)*f
	12-14.1 GHz	dB	-	-16+(2/3)*f
Common Mode to Differential Reflection Cable Output (Sdc22)	0.05-2 GHz	dB	-	-16+(2/3)*f
	2-4 GHz	dB	-	-16+(2/3)*f
	4-6 GHz	dB	-	-16+(2/3)*f
	6-8 GHz	dB	-	-16+(2/3)*f
	8-10 GHz	dB	-	-16+(2/3)*f
	10-12 GHz	dB	-	-16+(2/3)*f
	12-14.1 GHz	dB	-	-16+(2/3)*f

Actives

Tests		Notes	Limits
			max
Differential Return Loss Cable Input (Sdd11)	0.05-2.5 GHz	dB	$-12+1.71*\sqrt{f}$
	2.5-5.6 GHz	dB	$-12+1.71*\sqrt{f}$
	5.6-8 GHz	dB	$-6.7+13*\log_{10}(f/7)$
	8-10 GHz	dB	$-6.7+13*\log_{10}(f/7)$
	10-12 GHz	dB	$-6.7+13*\log_{10}(f/7)$
	12-14 GHz	dB	$-6.7+13*\log_{10}(f/7)$
Differential Return Loss Cable Output (Sdd22)	0.05-2.5 GHz	dB	$-12+1.71*\sqrt{f}$
	2.5-5.6 GHz	dB	$-12+1.71*\sqrt{f}$
	5.6-8 GHz	dB	$-6.7+13*\log_{10}(f/7)$
	8-10 GHz	dB	$-6.7+13*\log_{10}(f/7)$
	10-12 GHz	dB	$-6.7+13*\log_{10}(f/7)$
	12-14 GHz	dB	$-6.7+13*\log_{10}(f/7)$
Common Mode Return Loss Cable Input (Scc11)	0.05-2 GHz	dB	-2
	2-4 GHz	dB	-2
	4-6 GHz	dB	-2
	6-8 GHz	dB	-2
	8-10 GHz	dB	-2
	10-12 GHz	dB	-2
	12-14.1 GHz	dB	-2
Common Mode Return Loss Cable Output (Scc22)	0.05-2 GHz	dB	-2
	2-4 GHz	dB	-2
	4-6 GHz	dB	-2
	6-8 GHz	dB	-2
	8-10 GHz	dB	-2
	10-12 GHz	dB	-2
	12-14.1 GHz	dB	-2
Common Mode to Differential Reflection Cable Input (Sdc11)	0.05-2 GHz	dB	$-16+(2/3)*f$
	2-4 GHz	dB	$-16+(2/3)*f$
	4-6 GHz	dB	$-16+(2/3)*f$
	6-8 GHz	dB	$-16+(2/3)*f$
	8-10 GHz	dB	$-16+(2/3)*f$
	10-12 GHz	dB	$-16+(2/3)*f$
	12-14.1 GHz	dB	$-16+(2/3)*f$
Common Mode to Differential Reflection Cable Output (Sdc22)	0.05-2 GHz	dB	$-16+(2/3)*f$
	2-4 GHz	dB	$-16+(2/3)*f$
	4-6 GHz	dB	$-16+(2/3)*f$
	6-8 GHz	dB	$-16+(2/3)*f$
	8-10 GHz	dB	$-16+(2/3)*f$
	10-12 GHz	dB	$-16+(2/3)*f$
	12-14.1 GHz	dB	$-16+(2/3)*f$

Overall Compliance Results