

TFD Array Feed System Losses

Typinski, 3/28/15

Feed line loss sweeps performed 28 Mar 2015

Device sweeps performed 11 Aug 2013

Freq (MHz)	Rack panel to gray point of entry box LMR-400	Gray box to center J-box LMR-240	Center J-box to outer J-box RG-58	Outer J-box to element balun RG-58	Synergy DQK-701B 90° Hybrid (one)	Mini-Circuits ZSC-2-1W+ Combiners (two)	AJ4CO BALUN16-1A 16:1 Balun (one)	Loss Between Element Feed Points and Hybrid Outputs (dB)
	One Way Loss (dB)	One Way Loss (dB)	One Way Loss (dB)	One Way Loss (dB)	Loss (dB)	Loss (dB)	Loss (dB)	
16	-0.99	-0.94	-0.75	-0.33	-0.21	-0.40	-0.52	-4.13
18	-1.04	-0.99	-0.79	-0.35	-0.26	-0.41	-0.54	-4.38
20	-1.09	-1.03	-0.84	-0.37	-0.29	-0.42	-0.55	-4.61
22	-1.15	-1.07	-0.89	-0.39	-0.32	-0.43	-0.57	-4.82
24	-1.20	-1.11	-0.93	-0.40	-0.34	-0.44	-0.58	-5.01
26	-1.24	-1.16	-0.97	-0.42	-0.34	-0.45	-0.59	-5.17
28	-1.28	-1.20	-1.00	-0.45	-0.32	-0.47	-0.60	-5.33
30	-1.32	-1.23	-1.04	-0.46	-0.30	-0.49	-0.61	-5.46
32	-1.36	-1.27	-1.09	-0.46	-0.27	-0.50	-0.62	-5.57