

# Multitap Directional Couplers



Universal Specifications	
<b>Bandwidth</b>	5 - 1002 MHz
<b>Operating Temperature Range</b>	-40°F to + 140°F (-40°C to + 60°C)
<b>RFI</b>	120 dB Minimum
<b>Surge Protection</b>	IEEE Category A3 (6000V, 200Amp, Ring Wave)
<b>Spurious Signals and 2nd Order Harmonics</b>	< -60 dBmV
<b>Tap Return Loss</b>	21 dB
<b>Isolation - Tap to Tap</b>	
5 - 300 MHz	30 db
300 - 1002 MHz	27 db



2 Ports		4db Terminator	8db	11db	14db	17db	20db	23db	26db
<b>Insertion Loss (maximum)</b>		—	4.4 dB	3.2 dB	2.4 dB	1.5 dB	1.25 dB	1.25 dB	1.25 dB
<b>Isolation - Output to Tap</b>	<b>5 - 15 MHz</b>	—	38 dB	30 dB	35 dB	30 dB	38 dB	38 dB	38 dB
	<b>15 - 45 MHz</b>	—	38 dB	33 dB	35 dB	33 dB	38 dB	40 dB	40 dB
	<b>50 - 300 MHz</b>	—	30 dB	30 dB	30 dB	30 dB	35 dB	35 dB	35 dB
	<b>300 - 1002 MHz</b>	—	30 dB	26 dB	26 dB	30 dB	30 dB	30 dB	30 dB
<b>Input &amp; Output Return Loss</b>	<b>5 - 45 MHz</b>	21 dB	21 dB	20 dB	20 dB	20 dB	20 dB	20 dB	20 dB
	<b>50 - 1002 MHz</b>	21 dB	21 dB	20 dB	20 dB	21 dB	21 dB	21 dB	21 dB
<b>Tap Loss</b>	<b>5 - 550 MHz</b>	3.5±0.5	7.0±1.0	11.5±1.0	14.0±1.0	17.0±1.0	20.0±1.0	23.0±1.2	26.0±1.2
	<b>550 - 1002 MHz</b>	4.0±1.0	7.0±1.0	11.5±1.5	14.0±1.5	17.0±1.5	20.0±1.5	23.0±1.5	26.0±1.5

4 Ports		8db Terminator	11db	14db	17db	20db	23db	26db
<b>Insertion Loss (maximum)</b>		—	4.7 dB	3.2 dB	2.7 dB	1.5 dB	1.25 dB	1.25 dB
<b>Isolation - Output to Tap</b>	<b>5 - 15 MHz</b>	—	35 dB	35 dB	35 dB	35 dB	38 dB	38 dB
	<b>15 - 45 MHz</b>	—	38 dB	38 dB	35 dB	35 dB	40 dB	40 dB
	<b>50 - 300 MHz</b>	—	30 dB	30 dB	30 dB	30 dB	35 dB	35 dB
	<b>300 - 1002 MHz</b>	—	26 dB	26 dB	26 dB	30 dB	30 dB	30 dB
<b>Input &amp; Output Return Loss</b>	<b>5 - 45 MHz</b>	20 dB	20 dB	20 dB	20 dB	20 dB	20 dB	20 dB
	<b>50 - 1002 MHz</b>	20 dB	20 dB	20 dB	20 dB	20 dB	20 dB	20 dB
<b>Tap Loss</b>	<b>5 - 550 MHz</b>	7.0±1.0	10.0±1.0	13.5±1.0	17.0±1.0	20.0±1.0	23.0±1.0	26.0±1.0
	<b>550 - 1002 MHz</b>	7.0±1.0	10.5±1.5	13.5±1.5	17.0±1.5	20.0±1.5	23.0±1.5	26.0±1.5

8 Ports		11db Terminator	14db	17db	20db	23db	26db
<b>Insertion Loss (maximum)</b>		—	4.7 dB	3.2 dB	2.7 dB	1.5 dB	1.25 dB
<b>Isolation - Output to Tap</b>	<b>5 - 15 MHz</b>	—	35 dB	35 dB	38 dB	38 dB	38 dB
	<b>15 - 45 MHz</b>	—	40 dB	40 dB	40 dB	40 dB	40 dB
	<b>50 - 300 MHz</b>	—	35 dB	35 dB	35 dB	35 dB	35 dB
	<b>300 - 1002 MHz</b>	—	30 dB	26 dB	30 dB	30 dB	30 dB
<b>Input &amp; Output Return Loss</b>	<b>5 - 45 MHz</b>	20 dB	20 dB	20 dB	20 dB	20 dB	20 dB
	<b>50 - 1002 MHz</b>	20 dB	20 dB	20 dB	20 dB	20 dB	20 dB
<b>Tap Loss</b>	<b>5 - 550 MHz</b>	10.0±1.0	14.0±1.0	17.0±1.5	20.0±1.5	23.0±1.5	26.0±1.5
	<b>550 - 1002 MHz</b>	11.0±1.5	14.0±1.5	17.0±1.5	20.0±1.5	23.0±1.5	26.0±1.5