Art.No. 10100049

Standard article

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Brilliant-Line ++

MTB-8++

8-way tap

8-way multi tap

MTB-8++ front

	Port	Range	Min.	Typical	Max.	Unit	Rem.	Margin
Frequency Range			5		1000	MHz		
Equipment Approval				CE				
Insertion Loss	In -> Out	5 MHz < F < 10 MHz	5,5	6,5	7,5	dB		+/-0,5
		10 MHz < F < 862 MHz	4,9	6,0	7,1	dB		+/-0,5
		862 MHz < F < 1000 MHz	5,2	6,7	8,2	dB		+/-0,5
Tap Loss	In -> Tap 1	5 MHz < F < 862 MHz	11,0	12,0	13,0	dB		+/-0,5
		862 MHz < F < 1000 MHz	10,5	12,0	13,5	dB		+/-0,5
	In -> Tap 2	5 MHz < F < 862 MHz	11,5	12,5	13,5	dB		+/-0,5
		862 MHz < F < 1000 MHz	11,0	12,5	14,0	dB		+/-0,5
	In -> Tap 3	5 MHz < F < 862 MHz	12,5	13,5	14,5	dB		+/-0,5
		862 MHz < F < 1000 MHz	12,0	13,5	15,0	dB		+/-0,5
	In -> Tap 4	5 MHz < F < 862 MHz	13,0	14,0	15,0	dB		+/-0,5
		862 MHz < F < 1000 MHz	12,5	14,0	15,5	dB		+/-0,5
	In -> Tap 5	5 MHz < F < 862 MHz	13,5	14,5	15,5	dB		+/-0,5
		862 MHz < F < 1000 MHz	13,0	14,5	16,0	dB		+/-0,5
	In -> Tap 6	5 MHz < F < 862 MHz	14,5	15,5	16,5	dB		+/-0,5
		862 MHz < F < 1000 MHz	14,0	15,5	17,0	dB		+/-0,5
	In -> Tap 7	5 MHz < F < 862 MHz	15,0	16,0	17,0	dB		+/-0,5
		862 MHz < F < 1000 MHz	14,3	16,0	17,7	dB		+/-0,5
	In -> Tap 8	5 MHz < F < 862 MHz	16,0	17,0	18,0	dB		+/-0,5
		862 MHz < F < 1000 MHz	15,3	17,0	18,7	dB		+/-0,5
Return Loss	In	5 MHz < F < 10 MHz	18			dB		-1
		10 MHz < F < 40 MHz	22			dB		-1
		40 MHz < F < 862 MHz	22			dB	1	-1
		862 MHz < F < 1000 MHz	14			dB		-1
	Out	5 MHz < F < 10 MHz	18			dB		-1
		10 MHz < F < 40 MHz	22			dB		-1
		40 MHz < F < 862 MHz	22			dB	1	-1
		862 MHz < F < 1000 MHz	14			dB		-1
	Tap	5 MHz < F < 10 MHz	18			dB		-1
		10 MHz < F < 40 MHz	22			dB		-1
		40 MHz < F < 862 MHz	22			dB	1	-1
		862 MHz < F < 1000 MHz	14			dB		-1
Isolation	Tap -> Tap	5 MHz < F < 10 MHz	36			dB		-1
		10 MHz < F < 40 MHz	40			dB		-1
		40 MHz < F < 862 MHz	40			dB	1	-1
		862 MHz < F < 1000 MHz	30			dB		-1
	Out -> Tap 1	5 MHz < F < 10 MHz	23			dB		-1
		10 MHz < F < 40 MHz	31			dB		-1
		40 MHz < F < 862 MHz	31			dB	1	-1
		862 MHz < F < 1000 MHz	25			dB		-1
	Out -> Tap 2	5 MHz < F < 10 MHz	23,5			dB		-1
		10 MHz < F < 40 MHz	31,5			dB		-1
		40 MHz < F < 862 MHz	31,5			dB	1	-1
		862 MHz < F < 1000 MHz	25,5			dB		-1
	Out -> Tap 3	5 MHz < F < 10 MHz	24,5			dB		-1
		10 MHz < F < 40 MHz	32,5			dB		-1
		40 MHz < F < 862 MHz	32,5			dB	1	-1
		862 MHz < F < 1000 MHz	26,5			dB		-1

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	Port	Range	Min.	Typical	Max.	Unit	Rem.	Margin
	Out -> Tap 4	5 MHz < F < 10 MHz	25			dB		-1
		10 MHz < F < 40 MHz	33			dB		-1
		40 MHz < F < 862 MHz	33			dB	1	-1
		862 MHz < F < 1000 MHz	27			dB		-1
	Out -> Tap 5	5 MHz < F < 10 MHz	25,5			dB		-1
		10 MHz < F < 40 MHz	33,5			dB		-1
		40 MHz < F < 862 MHz	33,5			dB	1	-1
		862 MHz < F < 1000 MHz	27,5			dB		-1
	Out -> Tap 6	5 MHz < F < 10 MHz	26,5			dB		-1
		10 MHz < F < 40 MHz	34,5			dB		-1
		40 MHz < F < 862 MHz	34,5			dB	1	-1
		862 MHz < F < 1000 MHz	28,5			dB		-1
	Out -> Tap 7	5 MHz < F < 10 MHz	27			dB		-1
		10 MHz < F < 40 MHz	35			dB		-1
		40 MHz < F < 862 MHz	35			dB	1	-1
		862 MHz < F < 1000 MHz	29			dB		-1
	Out -> Tap 8	5 MHz < F < 10 MHz	28			dB		-1
		10 MHz < F < 40 MHz	36			dB		-1
		40 MHz < F < 862 MHz	36			dB	1	-1
		862 MHz < F < 1000 MHz	30			dB		-1
Screening Effectiveness	-	5 MHz < F < 300 MHz	85	95		dB	2	
		300 MHz < F < 470 MHz	80	90		dB	2	
		470 MHz < F < 1000 MHz	75	85		dB	2	
Intermodulation p+q (min)	-	No surge		122		dB	5	
		25 V surge		115		dB	4	
		1 KV surge		110		dB	3	

Remarks:

1 F > 40 MHz -1.5 dB/oct
2 Transfer impedance method according IEC 60728-2 (5-30 MHz)
Absorbtion clamp method according IEC-60728-2 § 4.4 (30-1000 MHz)
3 Two carriers (50 & 55MHz), tap to in, @ 120dBµV, after 1 pulse 1KV (IEC 1000-4-5 level 2) at all ports.
4 Two carriers (50 & 55MHz), tap to in, @ 120dBµV, after 10 pulses (25V/1,2µS risetime/500µS duration) at all ports.
5 Two carriers (50 & 55MHz), tap to in, @ 120dBµV, before surge

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