

# RMS

## 72XXK, 74XXK & 78XXK

Standard 1GHz Outdoor Tap

Digitap

72XXK, 74XXK & 78XXK 1GHz Taps



The RMS Standard 1GHz 2-Way, 4-Way & 8-Way outdoor taps have a power passing rating of 12 Amps (AC/DC) at 60-90V.

### Features:

- Bandwidth 5MHz to 1GHz
- RFI Shielding >-110dB
- Heavy duty power passing choke
- Glass epoxy PCB (FR4-G10) with protective cover
- 90 degree swivel blocks for easy installation in aerial or pedestal applications
- Color coded tap value label
- Stainless steel hardware
- Strip gauges on housing and heat shrink ridges on 5/8-24 ports
- Precision brass nickel plated "F" ports
- Heavy duty power passing choke
- Epoxy sealed "F" ports
- Drip lips on "F" ports
- Dual heavy-duty neoprene and wire mesh gaskets for total protection
- 360 die cast aluminum housing & plate that has been sealed & chromated
- Interlocking tongue/groove housing and faceplate (excellent RFI isolation)
- Other options available
- 100% Quality control at our factory
- CE approved

RMS Communications Inc

11516 Downs Road, Pineville, North Carolina. 28134 USA  
Toll Free: 1-800-223-8312 - Phone (704) 588-4008



# 72XXK, 74XXK & 78XXK

Standard 1GHz Outdoor Tap

## 72XXK 2-Way Tap

Tap Value		Black 4dB	Orange 8dB	Gold 11dB	White 14dB	Blue 17dB	Green 20dB	Purple 23dB	Yellow 26dB	Red 29dB
Insertion Loss (Max dB)	5 - 10MHz	Term	3.2	1.9	1.2	1.1	0.8	0.7	0.6	0.5
	10 - 200MHz	Term	3	1.7	1.3	1	0.7	0.5	0.5	0.3
	200 - 330MHz	Term	3.2	2.0	1.3	0.8	0.8	0.8	0.7	0.5
	330 - 450MHz	Term	3.5	2	1.4	1	1.0	0.9	0.8	0.7
	450 - 550MHz	Term	3.7	2.2	1.6	1.1	1.1	1.0	0.9	0.8
	550 - 750MHz	Term	4.1	2.6	1.7	1.5	1.3	1.3	1.2	1.2
	750 - 860MHz	Term	4.3	2.8	2.2	1.7	1.6	1.5	1.4	1.4
860 - 900MHz	Term	4.5	3.4	2.3	2.3	2	1.9	1.8	1.6	1.5
Return Loss Input, Output & Tap (Min dB)	5 - 15MHz	18	18	18	18	18	18	18	18	18
	15 - 600MHz	20	20	20	20	20	20	20	20	20
	600 - 750MHz	19	19	19	19	19	19	19	19	19
	750 - 900MHz	18	18	18	18	18	18	18	18	18
	900 - 1GHz	17	17	17	17	17	17	17	17	17
Isolation Tap to Tap (Min dB)	5 - 10MHz	20	20	20	20	20	20	20	20	20
	10 - 500MHz	24	24	24	24	24	24	24	24	24
	500 - 750MHz	22	22	22	22	22	22	22	22	22
	750 - 1GHz	20	20	20	20	20	20	20	20	20
Isolation Tap to Output (Min dB)	5 - 10MHz	N/A	19	19	21	25	25	27	29	31
	10 - 600MHz	N/A	25	25	28	31	32	35	35	43
	600 - 750MHz	N/A	23	23	26	29	32	34	35	41
	750 - 900MHz	N/A	21	21	24	27	28	30	32	37
	900 - 1GHz	N/A	20	20	21	24	26	28	30	32

## 74XXK 4-Way Tap

## 78XXK 8-Way Tap

Tap Value		Color -> ----->	Orange 8dB	Gold 11dB	White 14dB	Blue 17dB	Green 20dB	Purple 23dB	Yellow 26dB	Red 29dB	Gold 11dB	White 14dB	Blue 17dB	Green 20dB	Purple 23dB	Yellow 26dB	Red 29dB
Insertion Loss (Max dB)	5-10MHz	Term	3.2	2.1	1.3	1.1	0.8	0.7	0.7	Term	3.7	2.2	1.3	0.9	0.8	0.7	
	11-200MHz	Term	3.0	1.7	1.2	1.0	0.8	0.6	0.6	Term	3.5	1.8	1.0	1.1	0.7	0.6	
	200-330MHz	Term	3.2	1.9	1.3	0.9	0.9	0.6	0.6	Term	3.3	1.8	1.3	1.1	0.8	0.7	
	330-450MHz	Term	3.5	2.0	1.4	1.1	1.0	0.8	0.8	Term	3.5	2.0	1.4	1.1	1.0	0.9	
	450-550MHz	Term	3.7	2.2	1.5	1.2	1.1	0.8	0.8	Term	3.7	2.2	1.5	1.2	1.1	1.0	
	550-750MHz	Term	4.1	2.8	1.8	1.5	1.4	1.1	1.1	Term	4.5	2.6	1.8	1.5	1.4	1.3	
	750-860MHz	Term	4.6	3.0	2.2	1.7	1.6	1.4	1.4	Term	5.0	3.0	2.2	1.7	1.7	1.5	
860-1GHz	Term	5.0	3.4	2.5	2.1	1.9	1.6	1.6	Term	5.3	3.5	2.6	2.1	1.9	1.8		
Return Loss In, Out & Tap (Min dB)	5-15MHz	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	
	15-600MHz	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	
	601-750MHz	19	19	19	19	19	19	19	19	19	18	18	18	18	18	18	
	750-900MHz	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	
	900-1GHz	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	
Isolation Tap to Tap (Min dB)	5-10MHz	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	
	10-500MHz	25	25	25	25	25	25	25	25	24	24	24	24	24	24	24	
	500-750MHz	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	
	750-1GHz	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	
Isolation Tap to Output (Min dB)	5-10MHz	N/A	19	21	23	25	27	29	31	N/A	19	19	21	27	29	31	
	10-600MHz	N/A	25	28	31	31	33	38	40	N/A	25	25	28	35	38	40	
	600-750MHz	N/A	23	26	29	29	31	35	36	N/A	23	23	25	32	33	35	
	750-900MHz	N/A	21	24	25	25	27	32	33	N/A	21	21	24	29	31	32	
	900-1GHz	N/A	20	22	23	23	25	30	32	N/A	20	20	22	25	28	30	

Tap Tolerance: +/- 1.2dB from 4dB to 17dB and .5dB from 20dB to 29dB Power Passing: 12Amps AC/DC, 60 - 90V

Hum Modulation: 5-10MHz @ >68dB, 11-400MHz @ >70dB, 400-450MHz @ >68dB, 450-550MHz @ >64dB, 550-750MHz @ >62dB & 750-1GHz >60dB

Physical Size: 72XXK & 74XXK 3.75"H X 3.56" L X 2.50" H (95mm X 90mm X 63mm) & 78XXK 3.75"W X 5.31" L X 2.50" L (95mm X 135mm X 63mm)

RFI Shielding: >-110dB

Tap Flatness: +/- 0.5dB

Operating Temperature: -40F to +140F

XX = dB Value ie 7411K = 11dB

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