



PRODUCT FAMILY	DESCRIPTION
OUTDOOR RF PASSIVES	ISOLATED OUTDOOR LINE TAPS 3TPIX-XX
	FEATURES
	>> High performance >> Intended for use in access networks >> Frequency range up to 1.2 GHz >> Screening performance exceeds class A >> Umbrella housing design with weather resistant powder coating >> F ports waterproof design >> 10 A remote current feed >> F ports with individual double galvanic isolators and MoCA filters
SPECIFICATIONS	

	ELECTRICAL SPECIFICATIONS – 2-way taps (3TPI2-xx)										
	8		11		14		17		20		
INSERTION LOSS (dB, Max.) - IN TO OUT											
Frequency (MHz)											
10 - 1006	5.0		3.5		3.5		3.0		2.5		
1006 - 1218	5.5		4.0		3.5		3.5		3.0		
INSERTION LOSS (dB)- IN TO TAP											
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	
5 - 1218	6.5	-	9.5	-	12.5	-	15.5	-	18.5	-	
10 - 1006	-	9.5	-	12.5	-	15.5	-	18.5	-	21.5	
1006 - 1218	-	10.0	-	12.5	-	16.0	-	18.5	-	22.0	
ISOLATION (dB, Min.) - OUT TO TAP											
10 - 15	30.0		25.0		35.0		35.0		35.0		
15 - 470	30.0		30.0		34.0		32.0		35.0		
470 - 862	25.0		30.0		30.0		30.0		35.0		
862 - 1218	23.0		25.0		23.0		25.0		28.0		
1350 - 1800	35.0		40.0		40.0		35.0		35.0		
ISOLATION (dB, Min.) - TAP TO TAP											
10 - 15	30.0		25.0		30.0		30.0		30.0		
15 - 470	30.0		25.0		25.0		30.0		30.0		
470 - 862	25.0		22.0		25.0		25.0		25.0		
862 - 1218	20.0		22.0		20.0		25.0		25.0		
1350 - 1800	40.0		40.0		40.0		35.0		40.0		
RETURN LOSS (dB, Min.) - ALL PORTS											
10 - 15	16.0		16.0		16.0		16.0		16.0		
15 - 1218	18.0 ⁽¹⁾		18.0 ⁽¹⁾		18.0 ⁽¹⁾		18.0 ⁽¹⁾		18.0 ⁽¹⁾		



ELECTRICAL SPECIFICATIONS – 4-way taps (3TPI4-xx)

8 11 14 17 20

INSERTION LOSS (dB, Max.) - IN TO OUT

Frequency (MHz)					
10 - 1006	T	5.0	4.2	3.5	2.5
1006 - 1218	T	5.5	4.7	4.0	3.0

INSERTION LOSS (dB) - IN TO TAP

	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
5 - 1218	6.0	-	9.5	-	13.0	-	15.5	-	18.5	-
5 - 1006	-	9.0	-	12.5	-	15.5	-	18.5	-	21.5
1006 - 1218	-	9.5	-	13.5	-	16.0	-	19.0	-	22.0

ISOLATION (dB, Min.) - OUT TO TAP

10 - 15	T	30.0	30.0	30.0	35.0
15 - 470	T	30.0	35.0	35.0	35.0
470 - 862	T	30.0	30.0	32.0	35.0
862 - 1218	T	25.0	25.0	25.0	28.0
1350 - 1800	T	35.0	40.0	35.0	40.0

ISOLATION (dB, Min.) - TAP TO TAP

10 - 15	25.0	30.0	30.0	30.0	30.0
15 - 470	30.0	30.0	25.0	25.0	25.0
470 - 862	25.5	30.0	25.0	25.0	25.0
862 - 1218	20.0	25.0	25.0	20.0	22.0
1350 - 1800	35.0	35.0	40.0	35.0	40.0

RETURN LOSS (dB, Min.) - ALL PORTS

10 - 15	16.0	16.0	16.0	16.0	16.0
15 - 1218	18.0 ⁽¹⁾	18.0 ⁽¹⁾	18.0 ⁽¹⁾	18.0 ⁽¹⁾	18.0 ⁽¹⁾



ELECTRICAL SPECIFICATIONS – 8-way taps (3TPI8-xx)

11 14 17 20

INSERTION LOSS (dB, Max.) - IN TO OUT

Frequency (MHz)				
10 - 1006	T	5.0	4.0	3.0
1006 - 1218	T	5.5	4.5	3.5

INSERTION LOSS (dB) - IN TO TAP

	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
5 - 1218	9.5	-	12.5	-	15.5	-	18.5	-
5 - 1006	-	12.5	-	16.0	-	19.0	-	21.5
1006 - 1218	-	14.0	-	17.0	-	20.0	-	23.0

ISOLATION (dB, Min.) - OUT TO TAP

10 - 15	T	35.0	30.0	35.0
15 - 470	T	35.0	30.0	35.0
470 - 862	T	30.0	30.0	30.0
862 - 1218	T	30.0	25.0	25.0
1350 - 1800	T	40.0	40.0	40.0



ELECTRICAL SPECIFICATIONS – 8-way taps (3TPI8-xx)

11

14

17

20

ISOLATION (dB, Min.) – TAP TO TAP

10 - 15	25.0	30.0	30.0	30.0	
15 - 470	25.0	30.0	30.0	30.0	
470 - 862	25.0	25.0	25.0	25.0	
862 - 1006	25.0	25.0	25.0	25.0	
1006 - 1218	25.0	25.0	25.0	25.0	
1350 - 1800	40.0	40.0	40.0	40.0	

RETURN LOSS (dB, Min.) – IN / OUT

5 - 80	16.5	16.5	16.5	16.5	
80 - 1218	18.0 ⁽¹⁾	18.0 ⁽¹⁾	18.0 ⁽¹⁾	18.0 ⁽¹⁾	

RETURN LOSS (dB, Min.) – TAP

10 - 15	16.0	16.0	16.0	16.0	
15 - 1218	18.0 ⁽¹⁾	18.0 ⁽¹⁾	18.0 ⁽¹⁾	18.0 ⁽¹⁾	

GENERAL SPECIFICATIONS

Connector Interface Input / Output Tap	5/8 F
Tightening torque	≥ 4.5 Nm
Impedance	75 Ohm
Enclosure classification	IP66
Operating temperature range	-40° ... +60°C
EMC compatibility	EN50083-2, Class A
HUM modulation	-60 dB @ 7A / 60 VAC from 15 MHz
Maximum current	10A @ 60 VAC
MoCA filter	1350 MHz LPF
Galvanic isolation (tap ports)	2120 VDC not exceeding 0,7 mA current for at least one minute, 230 VAC RMS not exceeding 2 mA RMS leakage current
Dimensions (h x w x d)	2-4 way: 118 x 138 x 74 mm 8-way: 133 x 145 x 74 mm
Weight	2-4 way: 0.83 kg 8 way : 1.25 kg

NOTES:

(1) At F ≥ 40 MHz -1.5 dB per octave per octave

ORDERING INFORMATION

3TPI2-xx, 3TPI4-xx, 3TPI8-xx

xx = tap value in dB =8, 11, 14, 17 or 20 dB

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Outdoor line taps are high performance passives. The signal and power are constantly present on in and out port, while tap ports are used to feed the subscribers. Each tap port is equipped with a double galvanic isolator to protect and separate the individual subscribers connected to the tap ports. There is also a MoCA filter at each tap port.