

OUTDOOR SPLITTERS, TAPS, INSERTER AND COUPLERS

STRONG HOUSINGS, STRONG RESULTS | Various configurations



COAX NETWORKS

DATASHEET

INTRODUCTION

Our outdoor splitters and taps have an environmental robust aluminum alloy housing with PU coating and are waterproof to minimum 15 PSI. The surge protection is rated to minimum 1 kV 1.2/50 µs. The hum modulation at 10 A is 70 dB on average.



The splitters and taps have a high screening efficiency exceeding Class A +10 dB.

* Mounting angle is not included (please see on the last page)

PRODUCTS

- 3 **1.2 GHz**
POWER INSERTER,
SPLITTERS AND COUPLERS

“PIRE-01”

“SPLRE-0xx series”

“TPLRE-1-xx series”

- 5 **1.2 GHz**
2-WAY OUTDOOR TAPS

“MTRE-122-xx series”

- 7 **1.2 GHz**
4-WAY OUTDOOR TAPS

“MTRE-124-xx series”

- 9 **1.2 GHz**
8-WAY OUTDOOR TAPS

“MTRE-128-xx series”

- 11 **MOUNTING ANGLE FOR**
OUTDOOR PASSIVES

“LRE-TRE MOUNTING ANGLE”

1.2 GHz POWER INSERTER, SPLITTERS AND COUPLERS

PRODUCT OVERVIEW

“PIRE-01 and SPLRE-0xx series”

Power
inserter

2-way
splitter

3-way
splitter

Parameter	Frequency [MHz]	PIRE-01 IN-OUT	SPLRE-02 IN-OUT 1; 2	SPLRE-03 IN-OUT 1	SPLRE-03 IN-OUT 2;3	SPLRE-03E IN-OUT 1; 2; 3
Through loss [dB]	5 - 10	0.7	4.1	4.1	7.4	7.0
	10 - 65	0.7	4.1	4.1	7.4	6.5
	65 - 300	0.7	4.3	4.3	7.5	6.5
	300 - 550	0.7	4.5	4.5	7.6	7.0
	550 - 750	1.0	4.6	4.6	7.7	7.3
	750 - 862	1.3	4.7	4.7	7.8	7.5
	862 - 1006	1.3	4.8	4.8	8.0	8.5
	1006 - 1218	1.4	5.5	6.0	9.5	9.0
Power max. 20 A, 90 VAC						
Return loss [dB min.]	5 - 10	17	16	16		16
	10 - 47	18	18	18		16
	47 - 300	18 ¹⁾	18 ¹⁾	18 ¹⁾		18 ¹⁾
	300 - 1218	16	16	16		16
Isolation [dB min.]	5 - 10	75	20	21		18
	10 - 550	60	25	22		22
	550 - 750	60	25	21		22
	750 - 862	50	22	20		21
	862 - 1006	50	20	20		20
	1006 - 1218	45	18	20		20
Dimensions [mm]		138 x 124 x 72				
Item No.		40940	40941	40942		40943

¹⁾ At 47 MHz -1.5 dB/Oct

Series continues on the next page

PRODUCT OVERVIEW

“TPLRE-1-xx series”

1-way
directional couplers

Parameter	Frequency [MHz]	TPLRE-1-8	TPLRE-1-12	TPLRE-1-16
Through loss [dB]	5 - 10	1.8	1.2	1.3
	10 - 65	1.6	1.2	1.3
	65 - 550	2.0	1.5	1.3
	550 - 750	2.5	1.5	1.3
	750 - 862	2.9	1.8	1.6
	862 - 1006	3.1	2.2	1.6
	1006 - 1218	3.3	2.7	2.2
Tap loss [dB max.]	5 - 1006	9.5	13.0	17.0
	1006 - 1218	10.2	13.5	17.5
Return loss [dB min.]	5 - 10	16	16	16
	10 - 47	16	18	18
	47 - 300	18 ¹⁾	18 ¹⁾	18 ¹⁾
	300 - 1218	16	16	16
Directivity [dB min.]	5 - 10	18	19	21
	10 - 550	28	23	25
	550 - 750	28	25	30
	750 - 862	25	25	25
	862 - 1006	21	20	20
	1006 - 1218	18	18	20
Dimensions [mm]		138 x 124 x 72		
Item No.		40944	40945	40946

¹⁾ At 47 MHz -1.5 dB/Oct

ADDITIONAL INFORMATION

- All connections are 5/8"-threads
- Power rating max. 15 A, 90 VAC
- Operating temperature range: -40°C ... +60°C
- AC current path can be switched by jumpers



1.2 GHz

2-WAY OUTDOOR TAPS

PRODUCT OVERVIEW

“MTRE-122-xx series”

2-way taps

Parameter	Frequency [MHz]	MTRE-122-4		MTRE-122-8		MTRE-122-11		MTRE-122-14		MTRE-122-17		
Through loss [dB]	5 – 65	–		3.6		1.6		1.1		1.1		
	65 – 300	–		4		1.8		1.3		1.2		
	300 – 550	–		4.7		2.5		1.9		1.7		
	550 – 750	–		5		2.7		2.1		1.8		
	750 – 862	–		5		3		2.3		2		
	862 – 1006	–		5.1		3.1		2.4		2.1		
	1006 – 1218	–		5.3		3.3		2.6		2.3		
Tap loss [dB max.]	5 – 862	5		9		12		15		18		
	862 – 1218	5.5		9.5		12.5		15.5		18.5		
Return loss [dB min.]	5 – 10	16		16		15		16		16		
	10 – 47	18		18		18		18		18		
	47 – 300	18 ¹⁾		18 ¹⁾		18 ¹⁾		18 ¹⁾		18 ¹⁾		
	300 – 1006	16		16		16		16		16		
	1006 – 1218	14		14		14		14		14		
Isolation [dB min.]		Out-Tap	Tap-Tap	Out-Tap	Tap-Tap	Out-Tap	Tap-Tap	Out-Tap	Tap-Tap	Out-Tap	Tap-Tap	
	5 – 10	–	20	18	20	22	20	24	20	27	22	
	10 – 65	–	26	27.5	26	29	26	30.5	26	32	26	
	65 – 862	–	24	25.5	24	27	24	28.5	24	30	24	
	862 – 1218	–	22	23.5	22	25	22	26.5	22	28	22	
Dimensions [mm]			95 x 98.5 x 76									
Item No.	40947		40948		40949		40950		40951			

¹⁾ At 47 MHz -1.5 dB/Oct

Series continues on the next page

PRODUCT OVERVIEW

“MTRE-122-xx series”

2-way taps

Parameter	Frequency [MHz]	MTRE-122-20		MTRE-122-23		MTRE-122-26		MTRE-122-29		MTRE-122-32	
Through loss [dB]	5 – 65	0.8		0.8		0.7		0.7		0.7	
	65 – 300	0.9		0.9		0.9		0.8		0.8	
	300 – 550	1.3		1.3		1.3		1.2		1.2	
	550 – 750	1.5		1.5		1.4		1.3		1.3	
	750 – 862	1.8		1.7		1.7		1.4		1.4	
	862 – 1006	1.9		1.8		1.8		1.5		1.5	
	1006 – 1218	2.1		2		2		1.7		1.7	
Tap loss [dB max.]	5 – 862	21		24		27		30		33	
	862 – 1218	21.5		24.5		27.5		30.5		33.5	
Return loss [dB min.]	5 – 10	16		16		16		16		16	
	10 – 47	18		18		18		18		18	
	47 – 300	18 ¹⁾		18 ¹⁾		18 ¹⁾		18 ¹⁾		18 ¹⁾	
	300 – 1006	16		16		16		16		16	
	1006 – 1218	14		14		14		14		14	
Isolation [dB min.]		Out-Tap	Tap-Tap	Out-Tap	Tap-Tap	Out-Tap	Tap-Tap	Out-Tap	Tap-Tap	Out-Tap	Tap-Tap
	5 – 10	30	25	30	25	34	25	38	25	38	25
	10 – 65	33.5	26	35	26	36.5	26	38	26	38	26
	65 – 862	31.5	24	33	24	34.5	24	36	24	36	24
Dimensions [mm]	862 – 1218	29.5	22	31	22	32.5	22	34	22	34	22
		95 x 98.5 x 76									
Item No.		40952		40953		40954		40955		40956	

¹⁾ At 47 MHz -1.5 dB/Oct

ADDITIONAL INFORMATION

- NiSn65 alloy coated, watersealed F-female connectors
- AC/RF bypass in the loop (IN - OUT)
in case of a removed faceplate max. 12 A, 65 VAC
- Operating temperature range: -40°C ... +60°C
- Terminals: Tap F-female; IN/OUT 5/8"



“MTRE-122-xx Series”

1.2 GHz

4-WAY OUTDOOR TAPS

PRODUCT OVERVIEW

“MTRE-124-xx series”

4-way taps

Parameter	Frequency [MHz]	MTRE-124-8		MTRE-124-11		MTRE-124-14		MTRE-124-17		MTRE-124-20	
Through loss [dB]	5 – 65	–		3.6		1.6		1.1		1.1	
	65 – 300	–		4		1.8		1.3		1.2	
	300 – 550	–		4.7		2.5		1.9		1.7	
	550 – 750	–		5		2.7		2.1		1.8	
	750 – 862	–		5		3		2.3		2	
	862 – 1006	–		5.1		3.1		2.4		2.1	
	1006 – 1218	–		5.3		3.3		2.6		1.3	
Tap loss [dB max.]	5 – 862	9		12		15		18		21	
	862 – 1218	10		12.5		15.5		18.5		21.5	
Return loss [dB min.]	5 – 10	16		15		15		15		16	
	10 – 47	18		18		18		18		18	
	47 – 300	18 ¹⁾		18 ¹⁾		18 ¹⁾		18 ¹⁾		18 ¹⁾	
	300 – 1006	15		15		15		15		15	
	1006 – 1218	14		14		14		14		14	
Isolation [dB min.]		Out-Tap	Tap-Tap	Out-Tap	Tap-Tap	Out-Tap	Tap-Tap	Out-Tap	Tap-Tap	Out-Tap	Tap-Tap
	5 – 10	–	20	20	20	21	20	22	20	27	20
	10 – 65	–	26	29	26	30.5	26	32	26	33.5	26
	65 – 862	–	24	27	24	28.5	24	30	24	31.5	24
	862 – 1218	–	22	25	22	26.5	22	28	22	29.5	22
Dimensions [mm]	95 x 98.5 x 76										
Item No.	40957			40958		40959		40960		40961	

¹⁾ At 47 MHz -1.5 dB/Oct

Series continues on the next page

PRODUCT OVERVIEW

“MTRE-124-xx series”

4-way taps

Parameter	Frequency [MHz]	MTRE-124-23		MTRE-124-26		MTRE-124-29		MTRE-124-32	
Through loss [dB]	5 – 65	0.8		0.8		0.7		0.7	
	65 – 300	0.9		0.9		0.9		0.8	
	300 – 550	1.3		1.3		1.3		1.2	
	550 – 750	1.5		1.5		1.4		1.3	
	750 – 862	1.8		1.7		1.7		1.4	
	862 – 1006	1.9		1.8		1.8		1.5	
	1006 – 1218	2.1		2		2		1.7	
Tap loss [dB max.]	5 – 862	24		27		30		33	
	862 – 1218	24.5		27.5		30.5		33.5	
Return loss [dB min.]	5 – 10	16		16		16		16	
	10 – 47	18		18		18		18	
	47 – 300	18 ¹⁾		18 ¹⁾		18 ¹⁾		18 ¹⁾	
	300 – 1006	15		15		15		15	
	1006 – 1218	14		14		14		14	
Isolation [dB min.]		Out-Tap	Tap-Tap	Out-Tap	Tap-Tap	Out-Tap	Tap-Tap	Out-Tap	Tap-Tap
	5 – 10	30	20	34	20	35	20	36	20
	10 – 65	35	26	36.5	26	38	26	39.5	26
	65 – 862	33	24	34.5	24	36	24	37.5	24
	862 – 1218	31	22	32.5	22	34	22	35.5	22
Dimensions [mm]		95 x 98.5 x 76							
Item No.		40962		40963		40964		40965	

¹⁾ At 47 MHz -1.5 dB/Oct

Additional information

- NiSn65 alloy coated, watersealed F-female connectors
- AC/RF bypass in the loop (IN - OUT)
in case of a removed faceplate max. 12 A, 65 VAC
- Operating temperature range: -40°C ... +60°C
- Terminals: Tap F-female; IN/OUT 5/8"



“MTRE-124-xx series”

1.2 GHz

8-WAY OUTDOOR TAPS

PRODUCT OVERVIEW

“MTRE-128-xx series”

8-way taps

Parameter	Frequency [MHz]	MTRE-128-11		MTRE-128-14		MTRE-128-17		MTRE-128-20	
Through loss [dB]	5 – 65	–		3.6		1.6		1.1	
	65 – 300	–		4		1.8		1.3	
	300 – 550	–		4.7		2.5		1.9	
	550 – 750	–		5		2.7		2.1	
	750 – 862	–		5		3		2.3	
	862 – 1006	–		5		3.1		2.4	
	1006 – 1218	–		5		3.6		2.6	
Tap loss [dB max.]	5 – 862	12		15		18		21	
	862 – 1218	12.5		15.5		18.5		21.5	
Return loss [dB min.]	5 – 10	16		16		16		16	
	10 – 47	18		18		18		18	
	47 – 300	18 ¹⁾		18 ¹⁾		18 ¹⁾		18 ¹⁾	
	300 – 1006	16		16		16		16	
	1006 – 1218	14		14		14		14	
Isolation [dB min.]		Out-Tap	Tap-Tap	Out-Tap	Tap-Tap	Out-Tap	Tap-Tap	Out-Tap	Tap-Tap
	5 – 10	–	22	22	22	22	22	26	22
	10 – 65	–	26	30.5	26	32	26	33.5	26
	65 – 862	–	24	28.5	24	30	24	31.5	24
	862 – 1006	–	22	26.5	22	28	22	29.5	22
	1006 – 1218	–	20	24.5	20	26	20	27.5	20
Dimensions [mm]		117.5 x 145.5 x 78							
Item No.		40966		40967		40968		40969	

1) At 47 MHz -1.5 dB/Oct

Series continues on the next page

PRODUCT OVERVIEW

“MTRE-128-xx series”

8-way taps

Parameter	Frequency [MHz]	MTRE-128-23		MTRE-128-26		MTRE-128-29		MTRE-128-32	
Through loss [dB]	5 – 65	1.1		0.8		0.8		0.7	
	65 – 300	1.2		0.9		0.9		0.9	
	300 – 550	1.7		1.3		1.3		1.3	
	550 – 750	2		1.5		1.5		1.4	
	750 – 862	2		1.8		1.7		1.7	
	862 – 1006	2		1.9		1.8		1.8	
	1006 – 1218	2		2.1		2		2	
Tap loss [dB max.]	5 – 862	24		27		30		33	
	862 – 1218	24.5		27.5		30.5		33.5	
Return loss [dB min.]	5 – 10	16		16		16		16	
	10 – 47	18		18		18		18	
	47 – 300	18 ¹⁾		18 ¹⁾		18 ¹⁾		18 ¹⁾	
	300 – 1006	16		16		16		16	
	1006 – 1218	14		14		14		14	
Isolation [dB min.]		Out-Tap	Tap-Tap	Out-Tap	Tap-Tap	Out-Tap	Tap-Tap	Out-Tap	Tap-Tap
	5 – 10	33	22	35	22	40	22	40	22
	10 – 65	35	26	36.5	26	38	26	39.5	26
	65 – 862	33	24	34.5	24	36	24	37.5	24
	862 – 1006	31	22	32.5	22	34	22	35.5	22
	1006 – 1218	29	20	30.5	20	32	20	33.5	20
Dimensions [mm]		117.5 x 145.5 x 78							
Item No.		40970		40971		40972		40973	

¹⁾ At 47 MHz -1.5 dB/Oct

ADDITIONAL INFORMATION

- NiSn65 alloy coated, watersealed F-female connectors
- AC/RF bypass in the loop (IN - OUT) in case of a removed faceplate max. 12 A, 65 VAC
- Operating temperature range: -40°C ... +60°C
- Terminals: Tap F-female; IN/OUT 5/8"



“MTRE-128-xx series”

MOUNTING ANGLE FOR OUTDOOR PASSIVES

LRE-TRE MOUNTING ANGLE

For items 40940 - 40973, 40977, 40982

Item no. 40976

