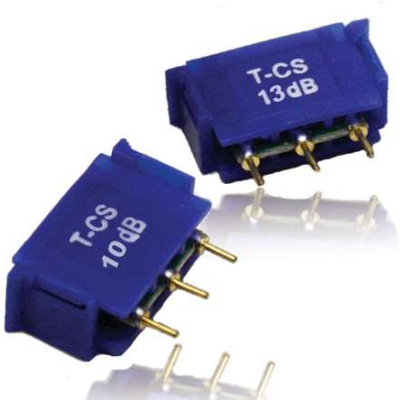
PLUG IN MODULE (PIM) SERIES

Cable Products, Mainline Passives, Conditioning Taps

TaiTin

Features

- 5–1218 MHz Bandwidth
- 15 Amp Current Capacity
- CB: Continuous Through Signal w/o Faceplate
- PIM: Plug In Jumper Installed in the Unit.
- Aluminum Alloy Housing used for Corrosion Resistance
- Double Polyurethane Coating for Greater Weather Protection
- Neoprene Gasket and RFI Shielding Gasket
- Printed Circuit Board



General Specifications

Flatness (5-1218 MHz) | ±0.35 dB (minimum)

RFI (5-1218 MHz) | -100 dB (minimum)

Current | 15 Amps Continuous

Nominal Impedance | 75 Ohms

Ordering Information

DTXXV - SR - CB - PIM - x x

- XXV: *33,55,66,88*
- x: *2, 4, or 8 port*
- x: ***see dB values below***

Model Number	Standard Carton	Inner Box	Carton Weight	dB Values Available
DTXXV-SR-CB-PIM-2xx	50 pcs (40 pcs)**	10 pcs	17 kg / 37 lbs	04T, 08, 11, 14, 17, 20, 23, 26, 29, 32, 35
DTXXV-SR-CB-PIM-4xx	50 pcs (40 pcs)**	10 pcs	18 kg / 40 lbs	08T, 11, 14, 17, 20, 23, 26, 29, 32, 35
DTXXV-SR-CB-PIM-8xx	40 pcs	10 pcs	21 kg / 46 lbs	11T, 14, 17, 20, 23, 26, 29, 32, 35

**66, 88 series are 40 pcs

PIM- x x x x x

- x: ***U**: (5-42/54-1218 MHz); **E**: (5-65/85-1218 MHz)*
  ***J**: (5-55/70-1218 MHz); **S**: (5-30/52-1218 MHz) **M**: (5-85/105 MHz) (use for RPA, FPA, or HP)*
- x: *2, 4, 6, 8, 10 (use for RPA)*
- x: *3, 5, 6, 8, 10, 11, 13, 15 dB (use for EQ)*
- x: *4, 7, 10, 13 dB (use for CS or FPA)*
- x: *CS-, EQ-, FPA-, RPA-, HP-*

Model Number	Std Qty	Inner Box	Description	Values (dB)
PIM-CS-xx	30 pcs	10 pcs	Cable Simulator - Maintains low loss in the return drop path, while attenuating the forward drop signals to the proper system levels.	6, 9, 12,
PIM-EQ-xx	30 pcs	10 pcs	Cable Equalizer- Attenuates the return path signal from the customer premise, thus reducing the effects of system ingress. In addition, tightens the window of return path signal variation allowing for efficient operation of an optical nodes' return transmitter.	3, 5, 6, 8, 10, 11,13,15
PIM-RPA-xx-x	30 pcs	10 pcs	Return Path Attenuator- Similar to PIM-EQ, except is split dependent and provides less impact on the forward drop signal.	2, 4, 6, 8, 10
PIM-FPA-xx-x	30 pcs	10 pcs	Forward Path Attenuator - Attenuates the forward path to reduce the signal level into the customer premise	6, 9, 12
PIM-JP	30 pcs	10 pcs	Jumper - To ensure the continued signal transmission.	
PIM-HP-xx	30 pcs	10 pcs	High Pass Plug In - Similar to PIM-RPA but attenuates the return path even more. Reduces system expense by not requiring a filter on every port.	customizable

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CS: Cable Simulator / PIM-CS-xx dB

Insertion Loss (dB) ± 1.0 Tolerance

Frequency	CS-6	CS-9	CS-12
5–65 MHz	0.3	0.3	0.3
66–400 MHz	2.5	3.0	3.5
401–750 MHz	5.0	7.5	8.0
751–1002 MHz	6.5	10.0	12.0
1003-1218 MHz	7.0	12.0	16.0

Return Loss (dB)

Frequency	CS-6	CS-9	CS-12
5–1002 MHz	16	16	16
1003-1218 MHz	12	12	12

HPF: Highpass Filter / PIM-HP-xx

Insertion Loss (dB) ± 1.0 Tolerance

Frequency	HPF-85	HPF-200
5–65* MHz	35.0	35.0
85–400 MHz	1.5	1.5
401–750 MHz	0.6	0.6
751–1002 MHz	0.8	0.8
1003-1218 MHz	1.0	1.0

85/200 MHz filter design shown

***Filter rolls off at -40 dB/decade to cut-off frequency**

Return Loss (dB)

Frequency	HPF-85	HPF-200
5–1002 MHz	16	16
1003-1218 MHz	12	12

EQ: CABLE EQUALIZER / PIM-EQ-xx dB

Insertion Loss (dB) ± 1.0 Tolerance

Frequency	EQ-3	EQ-5	EQ-6	EQ-8	EQ-10	EQ-11	EQ-13	EQ-15
5–65 MHz	3.0	4.5	6.0	7.5	9.5	11	13	14.5
66–400 MHz	2.5	3.0	4.0	5.0	5.0	6.0	7.0	7.5
401–750 MHz	1.0	1.0	1.6	1.6	2.2	2.0	2.0	2.0
751–1002 MHz	0.8	0.8	0.8	0.8	1.0	1.0	1.0	1.0
1003-1218 MHz	0.8	0.8	0.8	0.8	1.0	1.0	1.0	1.0

Return Loss (dB)

Frequency	EQ-3	EQ-5	EQ-6	EQ-8	EQ-10	EQ-11	EQ-13	EQ-15
5–1002 MHz	16	16	16	16	16	16	16	16
1003-1218 MHz	12	12	12	12	12	12	12	12

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RPA: Return Path Attenuator / PIM-RPA-xx-U dB

Insertion Loss (dB) ± 1.0 Tolerance

Frequency	RPA-2	RPA-4	RPA-6	RPA-8	RPA-10
5–15 MHz	2.0	4.0	6.0	8.0	10.0
16–42 MHz	6.0	8.0	8.0	12.0	14.0
54–400 MHz	2.0	2.0	2.0	2.0	2.0
401–750 MHz	1.5	1.5	1.5	1.5	1.5
751–1002 MHz	1.0	1.0	1.0	1.0	1.0
1003- 1218 MHz	1.2	1.2	1.2	1.2	1.2

Return Loss (dB)

Frequency	RPA-2	RPA-4	RPA-6	RPA-8	RPA-10
5-42 MHz	16	16	16	16	16
54–1002 MHz	16	16	15	16	16
1003-1218 MHz	12	12	12	12	12

RPA: Return Path Attenuator / PIM-RPA-xx-E dB

Insertion Loss (dB) ± 1.0 Tolerance

Frequency	RPA-2	RPA-4	RPA-6	RPA-8	RPA-10
5–15 MHz	2.2	4.2	6.2	8.2	10.2
16–65 MHz	3.0	5.0	7.0	9.0	11.0
85–400 MHz	1.8	1.8	1.8	1.8	1.8
401–750 MHz	0.6	0.6	0.6	0.6	0.6
751–1002 MHz	1.0	1.0	1.0	1.0	1.0
1003- 1218 MHz	1.2	1.2	1.2	1.2	1.2

Return Loss (dB)

Frequency	RPA-2	RPA-4	RPA-6	RPA-8	RPA-10
5-65 MHz	16	16	16	16	16
85–1002 MHz	16	16	15	16	16
1003-1218 MHz	12	12	12	12	12

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FPA: Forward Path Attenuator / PIM-FPA-xx-U dB

Insertion Loss (dB) ± 1.0 Tolerance

Frequency	FPA-6	FPA-9	FPA-12
5–42 MHz	1.0	1.0	1.0
54–400 MHz	6.0	9.0	12.0
401–750 MHz	6.0	9.0	12.0
751–1002 MHz	6.5	10.0	13.0
1003-1218 MHz	6.5	10.0	13.0

Return Loss (dB)

Frequency	FPA-6	FPA-9	FPA-12
5-42 MHz	16	16	16
54–1002 MHz	16	16	16
1003-1218 MHz	12	12	12

FPA: Forward Path Attenuator / PIM-FPA-xx-E dB

Insertion Loss (dB) ± 1.0 Tolerance

Frequency	FPA-6	FPA-9	FPA-12
5–65 MHz	1.6	1.6	1.6
85–400 MHz	7.0	10.0	13.0
401–750 MHz	6.6	9.6	12.6
751–1002 MHz	7.3	10.3	13.5
1003-1218 MHz	7.5	10.5	13.5

Return Loss (dB)

Frequency	FPA-6	FPA-9	FPA-12
5-65 MHz	16	16	16
85–1002 MHz	16	16	16
1003-1218 MHz	12	12	12

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