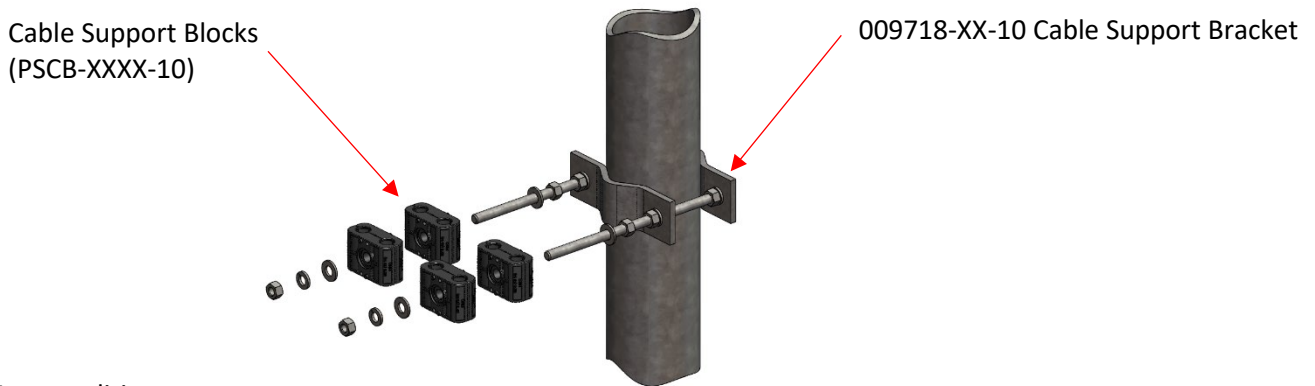


Part number(s): 009178-01, 009178-02, PSCB

Description: Low PIM cable support mount designed to secure multiple Cable Support Blocks to 2.375 to 3.5-inch OD galvanized steel pipe. Mount utilizes galvanized steel saddle brackets clamped to the pipe using 2x 3/8-inch galvanized steel threaded rods. The design eliminates galvanic mismatch between the mount and the pole and provides high contact pressure at metal-to-metal interfaces. Assembly torque = 10 FT-LB on all fasteners.



Test conditions:

Tested in accordance with proposed IEC 62037-8 specification under the following test conditions:

- Object type: Non-flat
- Test type: Near Field
- Dynamic stimulus: Tap DUT with fiberglass rod while PIM testing
- Test power: 2x 43 dBm test tones
- IM product measured IM3
- Pass/Fail level: -97 dBm (-140 dBc)
- Frequency bands: 700 MHz band (F1 = 728 MHz, F2 = 754 MHz, IM3 = 780 MHz)
1900 MHz band (F1 = 1930 MHz, F2 = 1990 MHz, IM3 = 1870 MHz)

Test distance calculations:

5.1.4.1.2	Lowest test frequency	(MHz)	728	1930		
	Wavelength	(in)	16.2	6.1		
	Galtronics D5778i	D (in)	13.8	13.8		
5.1.1	Antenna Gain (dBi)	10 dBi ± 3 dB	8.8 dBi	8.6 dBi		
	Antenna beamwidth (deg)		60	60		
			5.1.4.2		5.1.4.2	
		Tolerance	Distance (in)	Test zone width (in)	Distance (in)	Test zone width (in)
5.1.4.1.1	FarField min (in)	0.25	19.4	22.4	60.8	70.2
	FarField nom (in)		23.5	27.1	62.3	71.9
	FarField max (in)	0.25	27.5	31.8	63.8	73.7
5.1.4.1.2	NearField min (in)	0.1	14.6	30.6	5.5	20.2
	NearField nom (in)		16.2	32.5	6.1	20.9
	NearField max (in)	0.1	17.8	34.4	6.7	21.6

Test Results Summary:

		IM3 @ 2x +43 dBm Test Power (dBm)					
Specification (dBm)	-97	Port / Band	Residual PIM	Front	R-Side	L-Side	Back
Result	PASS	M45 / 700	-116.1	-110.6	-122.6	-113.6	-111.3
		P45 / 700	-119.6	-113.7	-114.1	-122.9	-116.1
		M45 / 1900	-110.5	-108.0	-110.6	-112.6	-110.7
		P45 / 1900	-121.0	-118.6	-121.8	-115.6	-122.3
		M45 Return Loss Verification (dB)					
		Frequency	Front	R-Side	L-Side	Back	
Specification (dB)	10	F1	728 MHz	18.1	16.7	17.1	16.8
Result	PASS	F2	754 MHz	16.4	18.4	18.0	18.0
		IM3	780 MHz	17.5	16.6	16.7	17.4
		IM3	1870 MHz	22.8	26.8	24.2	30.8
		F2	1930 MHz	32.3	24.6	25.1	21.6
		F1	1990 MHz	23.4	29.0	26.4	28.0
		P45 Return Loss Verification (dB)					
		Frequency	Front	R-Side	L-Side	Back	
Specification (dB)	10	F1	728 MHz	18.7	22.0	22.9	22.4
Result	PASS	F2	754 MHz	17.5	18.5	18.9	20.1
		IM3	780 MHz	22.1	19.8	18.6	20.4
		IM3	1870 MHz	31.8	25.2	25.6	21.8
		F2	1930 MHz	19.2	16.8	16.8	15.6
		F1	1990 MHz	25.7	27.3	26.1	21.2

PIM Test Data: 700 MHz

| SITE DETAILS

Site	Sector	Feeder	Operator
009718	NA	NA	T BELL

| TEST PARAMETERS

Tone 1 Frequency	Tone 2 Frequency	IM3 Frequency
728.0 MHz	754.0 MHz	780.0 MHz

| TEST RESULTS

Test Point	Time	P1 P2	PIM Threshold	PIM	Peak PIM	Result
700 RES M45	2019-02-01 11:15	43.0 dBm 43.0 dBm	-100.0 dBm	-117.0 dBm	-116.1 dBm	Pass
700 FRONT M45	2019-02-01 11:16	43.0 dBm 43.0 dBm	-100.0 dBm	-112.4 dBm	-110.6 dBm	Pass
700 R SIDE M45	2019-02-01 11:17	43.0 dBm 43.0 dBm	-100.0 dBm	-122.9 dBm	-122.6 dBm	Pass
700 L SIDE M45	2019-02-01 11:18	43.0 dBm 43.0 dBm	-100.0 dBm	-115.0 dBm	-113.6 dBm	Pass
700 BACK M45	2019-02-01 11:20	43.0 dBm 43.0 dBm	-100.0 dBm	-115.8 dBm	-111.3 dBm	Pass
700 RES P45	2019-02-01 11:42	43.0 dBm 43.0 dBm	-100.0 dBm	-122.0 dBm	-119.6 dBm	Pass
700 FRONT P45	2019-02-01 11:43	43.0 dBm 43.0 dBm	-100.0 dBm	-114.9 dBm	-113.7 dBm	Pass
700 R SIDE P45	2019-02-01 11:45	43.0 dBm 43.0 dBm	-100.0 dBm	-117.0 dBm	-114.1 dBm	Pass
700 L SIDE P45	2019-02-01 11:46	43.0 dBm 43.0 dBm	-100.0 dBm	-126.0 dBm	-122.9 dBm	Pass
700 BACK P45	2019-02-01 11:47	43.0 dBm 43.0 dBm	-100.0 dBm	-119.3 dBm	-116.1 dBm	Pass

Model	Serial Number	Calibration Due	SW/FW Versions
iQA-0700HC	TX2132100208	04 May 2019	2.10.0/2.2.0

PIM Test Data: 1900 MHz

SITE DETAILS						
Site	Sector	Feeder	Operator			
009718	NA	NA	T BELL			

TEST PARAMETERS		
Tone 1 Frequency	Tone 2 Frequency	IM3 Frequency
1930.0 MHz	1990.0 MHz	1870.0 MHz

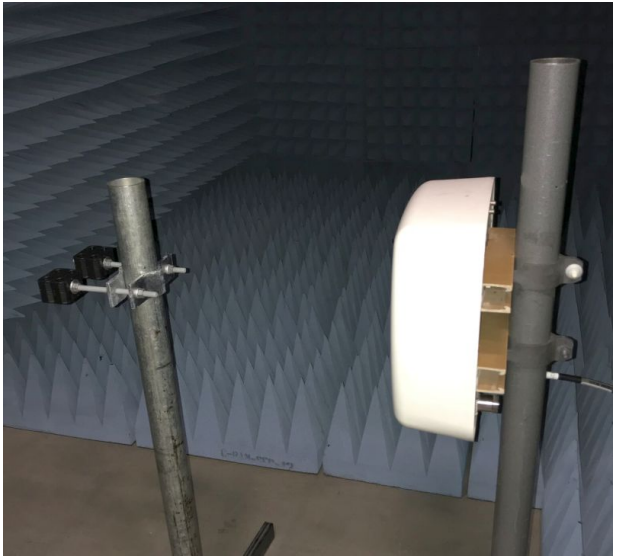
TEST RESULTS						
Test Point	Time	P1 P2	PIM Threshold	PIM	Peak PIM	Result
1900 RES M45	2019-02-02 17:04	43.0 dBm 43.0 dBm	-100.0 dBm	-111.6 dBm	-110.5 dBm	Pass
1900 FRONT M45	2019-02-02 17:05	43.0 dBm 43.0 dBm	-100.0 dBm	-112.0 dBm	-108.0 dBm	Pass
1900 R SIDE M45	2019-02-02 17:06	43.0 dBm 43.0 dBm	-100.0 dBm	-112.0 dBm	-110.6 dBm	Pass
1900 L SIDE M45	2019-02-02 17:08	43.0 dBm 43.0 dBm	-100.0 dBm	-112.8 dBm	-112.6 dBm	Pass
1900 BACK M45	2019-02-02 17:09	43.0 dBm 43.0 dBm	-100.0 dBm	-111.3 dBm	-110.7 dBm	Pass
1900 RES P45	2019-02-02 17:11	43.0 dBm 43.0 dBm	-100.0 dBm	-122.4 dBm	-121.0 dBm	Pass
1900 FRONT P45	2019-02-02 17:12	43.0 dBm 43.0 dBm	-100.0 dBm	-120.7 dBm	-118.6 dBm	Pass
1900 R SIDE P45	2019-02-02 17:13	43.0 dBm 43.0 dBm	-100.0 dBm	-124.4 dBm	-121.8 dBm	Pass
1900 L SIDE P45	2019-02-02 17:15	43.0 dBm 43.0 dBm	-100.0 dBm	-120.8 dBm	-115.6 dBm	Pass
1900 BACK P45	2019-02-02 17:16	43.0 dBm 43.0 dBm	-100.0 dBm	-123.2 dBm	-122.3 dBm	Pass

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Model	Serial Number	Calibration Due	SW/FW Versions		
iQA-1921B	TX2112700053	24 May 2019	2.10.0/2.2.0		

Test set-up photos 700 MHz:



FRONT



BACK



RIGHT SIDE



LEFT SIDE

Test set-up photos 1900 MHz:



FRONT



BACK



RIGHT SIDE



LEFT SIDE