

Part number(s): See below:

Description: Low PIM cable support system designed to secure multiple PIM Shield Hybrid and/or Plastic snap-in cable hangers to structural members at the cell site. The mount utilizes two PIM Shield Cable Straps to secure the Cable Support Base to the structural member. A stainless-steel Threaded Rod Kit secures the stainless-steel 4-position Cable Support Bar to the Cable Support Base. Assembly torque = 10 FT-LB on all fasteners.

900209-10

Cable Support Base

PSSH-xxxx-10

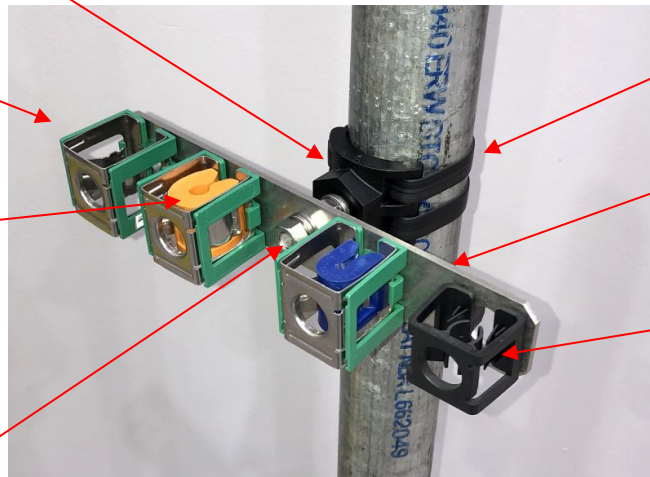
Hybrid Snap-In

PSCC-xxxx-10

Cable Cushion

900210-10

Threaded Rod Kit



2x 900443-xx-xx

Cable Straps

900351-10

Cable Support Bar

PSPS-xxxx-10

Plastic Snap-In

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 = 757 MHz, IM3 = 786 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	-115.0	-101.9	-112.4	-114.0	-114.3	
		P45 / 700	-121.3	-104.1	-121.5	-120.7	-113.5	
		M45 / 1900	-119.1	-110.9	-115.8	-119.3	-111.6	
		P45 / 1900	-110.0	-112.7	-110.8	-106.8	-110.4	
			Return Loss Verification (dB)					
			Frequency	P45	M45			
Specification (dB)	10	F1	728 MHz	17.8	20.3			
Result	PASS	F2	754 MHz	16.8	17.5			
		IM3	780 MHz	17.1	22.2			
		IM3	1870 MHz	25.4	23.3			
		F2	1930 MHz	28.4	16.6			
		F1	1990 MHz	30.6	20.2			

PIM Test Data: 700 MHz

| SITE DETAILS

Site	Sector	Feeder	Operator
PSHS	NA	NA	T BELL

| TEST PARAMETERS

Tone 1 Frequency	Tone 2 Frequency	IM3 Frequency
728.0 MHz	757.0 MHz	786.0 MHz

| TEST RESULTS

Test Point	Time	P1 P2	PIM Threshold	PIM	Peak PIM	Result
700 RES P45	2020-12-21 11:00	43.0 dBm 43.0 dBm	-100.0 dBm	-121.4 dBm	-121.3 dBm	Pass
700 FRONT P45	2020-12-21 11:10	43.0 dBm 43.0 dBm	-100.0 dBm	-104.2 dBm	-104.1 dBm	Pass
700 R SIDE P45	2020-12-21 11:11	43.0 dBm 43.0 dBm	-100.0 dBm	-121.9 dBm	-121.5 dBm	Pass
700 L SIDE P45	2020-12-21 11:12	43.0 dBm 43.0 dBm	-100.0 dBm	-121.6 dBm	-120.7 dBm	Pass
700 BACK P45	2020-12-21 11:13	43.0 dBm 43.0 dBm	-100.0 dBm	-113.6 dBm	-113.5 dBm	Pass
700 RES M45	2020-12-21 11:15	43.0 dBm 43.0 dBm	-100.0 dBm	-115.1 dBm	-115.0 dBm	Pass
700 FRONT M45	2020-12-21 11:20	43.0 dBm 43.0 dBm	-100.0 dBm	-102.2 dBm	-101.9 dBm	Pass
700 R SIDE M45	2020-12-21 11:20	43.0 dBm 43.0 dBm	-100.0 dBm	-112.6 dBm	-112.4 dBm	Pass
700 L SIDE M45	2020-12-21 11:21	43.0 dBm 43.0 dBm	-100.0 dBm	-114.1 dBm	-114.0 dBm	Pass
700 BACK M45	2020-12-21 11:22	43.0 dBm 43.0 dBm	-100.0 dBm	-114.4 dBm	-114.3 dBm	Pass

PIM Test Data: 1900 MHz

Site Test Report

| SITE DETAILS

Site	Sector	Feeder	Operator
PSHS	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	2020-12-22 04:52	43.0 dBm 43.0 dBm	-100.0 dBm	-119.6 dBm	-119.1 dBm	Pass
1900 FRONT M45	2020-12-22 04:59	43.0 dBm 43.0 dBm	-100.0 dBm	-111.3 dBm	-110.9 dBm	Pass
1900 R SIDE M45	2020-12-22 05:00	43.0 dBm 43.0 dBm	-100.0 dBm	-116.3 dBm	-115.8 dBm	Pass
1900 L SIDE M45	2020-12-22 05:01	43.0 dBm 43.0 dBm	-100.0 dBm	-122.1 dBm	-119.3 dBm	Pass
1900 BACK M45	2020-12-22 05:01	43.0 dBm 43.0 dBm	-100.0 dBm	-112.1 dBm	-111.6 dBm	Pass
1900 RES P45	2020-12-22 05:07	43.0 dBm 43.0 dBm	-100.0 dBm	-110.4 dBm	-110.0 dBm	Pass
1900 FRONT P45	2020-12-22 05:09	43.0 dBm 43.0 dBm	-100.0 dBm	-113.8 dBm	-112.7 dBm	Pass
1900 R SIDE P45	2020-12-22 05:09	43.0 dBm 43.0 dBm	-100.0 dBm	-112.4 dBm	-110.8 dBm	Pass
1900 L SIDE P45	2020-12-22 05:10	43.0 dBm 43.0 dBm	-100.0 dBm	-107.0 dBm	-106.8 dBm	Pass
1900 BACK P45	2020-12-22 05:11	43.0 dBm 43.0 dBm	-100.0 dBm	-111.3 dBm	-110.4 dBm	Pass

Test set-up photos 700 MHz:



FRONT



BACK



RIGHT SIDE

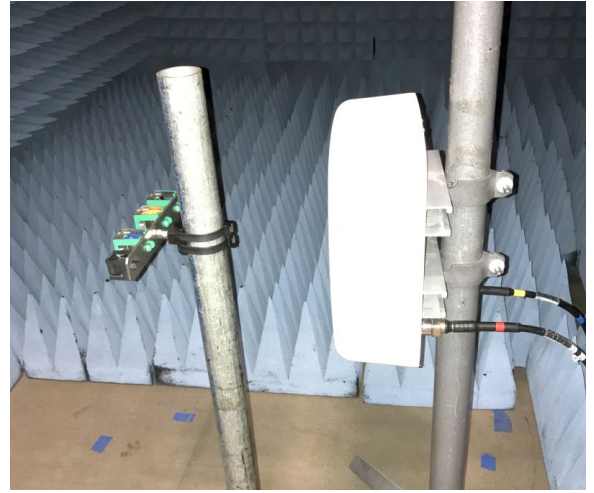


LEFT SIDE

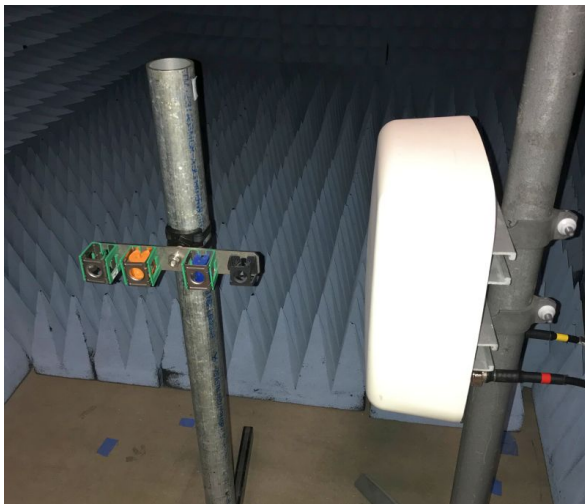
Test set-up photos 1900 MHz:



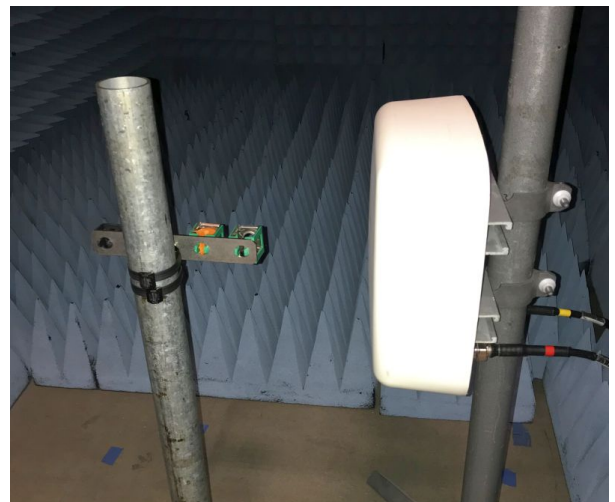
FRONT



BACK



RIGHT SIDE



LEFT SIDE