

发送时间: 2018-08-08 07:59  
 收件人: [sqe@dptel.com](mailto:sqe@dptel.com); 'lucia'  
 抄送: '晶体采购'; 'ling.tong'; 'guohua.cheng'  
 主题: RE: Z149YS2000A来料牵引不合格、相噪不合格问题

Hi Jesse,

你好! 关于其它答复

3). 重影问题

=> Design of the part 200M is using multiplier two of 100M crystal

So image of double wave can be exist

It's no problem in electrical function. Many customers are using VCXO parts on design of multiplier two

We delivered these parts before on June 2016 and they were same design as this lot

4). 相噪问题: 我们不提供测试夹具

=> We inspected phase noise of **all** delivered parts, please see the attached data of stocks in here

From: sqe@dptel.com <sqe@dptel.com>

Sent: Monday, August 06, 2018 4:52 PM

To:

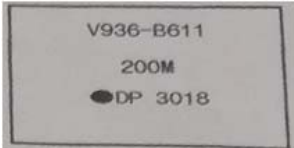

Cc: 晶体采购 <jtcg@dptel.com>; ling.tong <ling.tong@dptel.com>; guohua.cheng <guohua.cheng@dptel.com>

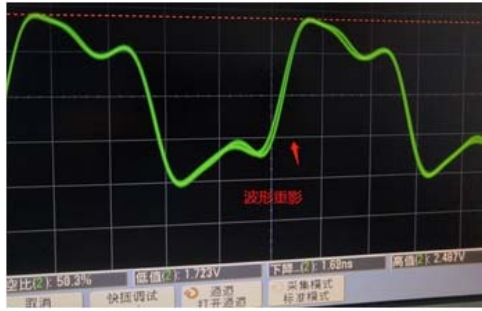
Subject: Z149YS2000A来料牵引不合格、相噪不合格问题

罗辰先生:

你好, 2018年8月3日收到贵司Z149YS2000A来料130pcs, 经我司检验发现以下几点问题, 需要贵司协助确认。

1. 贵司的牵引范围是±80~150ppm, 压控电压为0.3V、3.0V; 而我司规格书要求±100ppm, 压控电压为0V、3.3V; 我与采购确认当时发送给贵司的规格书牵引范围是±100ppm, 为何贵司来料与我司规格书不一致。
2. 产品表面印字与我司不一致, 如下图。
3. 抽检发现波形重影。请贵司确认分谐波你们管控的是多少, 是否有测试数据。
4. 相噪测试100Hz不合格, 要求-100dBc±5dBc, 实测-94~-90dBc, 请提供贵司的相噪图。另外贵司后续出货是否可以提供一个测试座给我司, 因为一直以来相噪测试双方都有差异。

不良图片																																																																								
供应商测试结果	大普测试结果	不良问题																																																																						
<table border="1"> <thead> <tr> <th colspan="2">Frequency Dev. (ppm)</th> </tr> <tr> <th colspan="2">±80~150ppm</th> </tr> <tr> <th>0.3V</th> <th>3.0V</th> </tr> </thead> <tbody> <tr><td>-98</td><td>88</td></tr> <tr><td>-94</td><td>88</td></tr> <tr><td>-84</td><td>82</td></tr> <tr><td>-95</td><td>86</td></tr> <tr><td>-88</td><td>82</td></tr> <tr><td>-90</td><td>83</td></tr> <tr><td>-92</td><td>87</td></tr> <tr><td>-8</td><td>84</td></tr> <tr><td>-92</td><td>83</td></tr> <tr><td>-90</td><td>87</td></tr> </tbody> </table> 	Frequency Dev. (ppm)		±80~150ppm		0.3V	3.0V	-98	88	-94	88	-84	82	-95	86	-88	82	-90	83	-92	87	-8	84	-92	83	-90	87	<table border="1"> <thead> <tr> <th colspan="2">Frequency Tuning Range ±100ppm</th> </tr> <tr> <th>0V</th> <th>3.3V</th> </tr> </thead> <tbody> <tr><td>-111.35</td><td>94.08</td></tr> <tr><td>-113.92</td><td>100.405</td></tr> <tr><td>-113.5</td><td>97.3</td></tr> <tr><td>-114.025</td><td>99.755</td></tr> <tr><td>-111.56</td><td>92.45</td></tr> <tr><td>-108.465</td><td>95.35</td></tr> <tr><td>-119.215</td><td>98.69</td></tr> <tr><td>-110.525</td><td>98.65</td></tr> <tr><td>-112.63</td><td>98.625</td></tr> <tr><td>-109.045</td><td>97.75</td></tr> <tr><td>-107.81</td><td>98.84</td></tr> <tr><td>-119.325</td><td>103.915</td></tr> <tr><td>-113.775</td><td>103.185</td></tr> <tr><td>-115</td><td>96</td></tr> <tr><td>-111.15</td><td>97</td></tr> <tr><td>-110.635</td><td>98.19</td></tr> <tr><td>-121</td><td>100.6</td></tr> <tr><td>-113.15</td><td>101.09</td></tr> <tr><td>-115.25</td><td>99.4</td></tr> <tr><td>-108.15</td><td>106.18</td></tr> </tbody> </table> 	Frequency Tuning Range ±100ppm		0V	3.3V	-111.35	94.08	-113.92	100.405	-113.5	97.3	-114.025	99.755	-111.56	92.45	-108.465	95.35	-119.215	98.69	-110.525	98.65	-112.63	98.625	-109.045	97.75	-107.81	98.84	-119.325	103.915	-113.775	103.185	-115	96	-111.15	97	-110.635	98.19	-121	100.6	-113.15	101.09	-115.25	99.4	-108.15	106.18	<ol style="list-style-type: none"> <li>1. 供应商牵引指标为±80~150ppm, 压控电压为0.3V、3.0V; 我司指标为±100ppm, 压控电压为0V、3.3V;</li> <li>2. 外观丝印与我司的不一致。</li> </ol>
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无相噪数据

Phase Noise			
100 Hz	1K Hz	10K Hz	100K Hz
-99.42	-119.84	-131.217	-142.38
-100.25	-122.62	-131.93	-144.5
-91.63	-118.07	-133.1	-144.59
-90.4	-125.97	-136.33	-145.77
-100.39	-129.35	-136.05	-146.18
-98.59	-126.98	-135.26	-144.12
-99.29	-127.8	-134.73	-145.4
-94.44	-120.89	-133.31	-145.4

相噪100Hz不合格, 抽检8pcs, 3pcs不合格

Dapu Telecom Technology Co.,Ltd

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