

In accordance with ECSS-Q-ST-60-13C

Process Flow Steps		Method / Condition	Sampling		
#	ECSS Class	x =	1	2	3
1	Plastic Encapsulating Microcircuits (PEM) Assembly	Internal or Subcontractor procedure		100%	
2	Incoming inspection	Internal procedure		If appl.	
3	Marking	Internal procedure / per Device Specification		100%	
4	Serialization marking	Internal procedure / per Device Specification	100%	100%	-
5	Temperature Cycling	MIL-STD-883 TM1010 / Cond B / +125°C / -55°C	10cy	10cy	-
6	Xray inspection	MIL-STD-883 TM 2012 / 1 view / +datalog	100%	-	-
7	Pre-Burn-in electrical	Per Device Specification / +25°C / +datalog		100%	
8	Burn-In	MIL-STD-883 TM1015 / D / 125°C	240Hrs	160Hrs	-
9	Post-Burn-In (Interim) Electrical	Per Device Specification / +25°C / +datalog	100%	100%	-
10	PDA	PDA (amb temp) / +datalog		5%	
11	Extreme temp. Electrical	Per Device Specification / +125°C / -55°C / +datalog		100%	
12	Physical dimension control	Per Device Specification		100%	
13	External Visual	MIL-STD-883 TM2009		100%	
14	Bake	J-STD-033 / 125°C		100%	
15	Packing	Internal procedure		100%	
16	Certificate of Compliance	MIL-PRF-38535		By delivery	

Qualification Lot	Method / Condition	Termination	Sampling
Construction analysis	ESCC 21400		100%
Precond + Biased HAST or THB	JESD22-A110 96H / +130°C / 85%RH or JESD22-A101		on 10 #
Precond / Temp.Cycling / C-SAM	MIL-STD-883 TM 1010 / B / 100cy / -55°C to 125°C		on 10 #
HTOL	MIL-STD-883 TM 1005 / D / / 125°C / per diffusion lot	2000H 15#	1000H 15# 1000H 15#
Radiation Verification Tests	ECSS-Q-ST-60-15 / per diffusion lot		If appl.

* Quality notes	Sampling
Screening for Plastic Encapsulating Microcircuits (PEM) packages	-
Flight Models delivered with CD-rom including : - Flight Model traceability / Final source inspection report - Electrical measurements of delivered FM - Qualification report - SEM analysis (Die construction analysis) - X-Ray report - CoC	By delivery

Useful address / Link	
ESCIES	https://escies.org
Mil Specs and Drawings	www.landandmaritime.dla.mil
Contact Teledyne-e2v Marketing	semiconductors.MKT@Teledyne-e2v.com
Visit teledyne-e2v website	www.Teledyne-e2v.com