

AN0031
HR (High Reliability and Space Level Product)
Working Reference Sheet for Quotations
 Lead Time Chart, Sample Required Reference Table, Testing Procedures

EMC High Reliability and S-level products are being offered with standardized lead-times. Use Table I below.

Table I: High Reliability Lead-Times

HR03/HR05XXA	12 Weeks ARO
HR03/HR05XXB	18 Weeks ARO
HR03/HR05XXC	20 Weeks ARO
HRT/HRMXX0AXXX	12 Weeks ARO
HRT/HRMXX0BXXX	18 Weeks ARO
HRT/HRMXX0CXXX	20 Weeks ARO

When customers purchase High Reliability or S-level products, they will designate whether Group A, B, or C is required. When entering an order, the following additional line items will be required.

Table II: Sample Line Items Required @ unit price on the purchase order.

	HR03/HR05	HR05 "WB1" or "G"	HRT/HRM	HRM "WB1" or "G"
Group A	None	None	3 TCA Samples	3 TCA Samples
Group B				
Sub-group 1	Add 3 samples	Add 3 Samples	Add 3 Samples	Add 3 Samples
Sub-group 2	Add 4 Samples Burn-In	Add 4 Samples Burn-In	Add 4 Samples Burn-In	Add 4 Samples Burn-In
Group A & B Total	7 Samples	7 Samples	10 Samples	10 Samples
Group C	Add 4 Samples for Stepped Burn-In	Add 4 Samples for Stepped Burn-In	Add 4 Samples for Stepped Burn-In	Add 4 Samples for Stepped Burn-In
Group A, B & C Total	11 Samples	11 Samples	14 Samples	14 Samples

All sample line items should be entered separately onto the factory order immediately after the corresponding HR line item at the unit price based on the total quantity purchased per value. These items must appear on any quotations and on any purchase orders received from the customer.

TCA destruct samples will be shipped separately in a waffle pack marked "TCA Samples".

3 Test Samples for Group B sub-group 1 will be shipped in a waffle pack marked "Group B, subgroup 1 Samples".

4 Burn-In Samples for Group B sub-group 2 will be shipped in a waffle pack marked "Group B, subgroup 2 Life Test Samples 1000 hour Burn-In @ 70 deg. C".

4 Qualification Samples for Group C will be shipped in a waffle pack marked "Group C Qualification Samples 1000 hour Stepped Burn-in (250 hrs/500 hrs/750 hrs/1000 hrs) @ 125 deg C".

Use Table III below for a reference showing what tests are included when requesting Group A, B, or C designators.

Table III: Testing Procedures to be Included			
	Group A	Group B	Group C
Pre-Cap Inspection	✓	✓	✓
Initial RF Testing	✓	✓	✓
Visual Mechanical	✓	✓	✓
Thermal Shock	✓	✓	✓
After Thermal Shock (ATS) RF Testing	✓	✓	✓
168 Hour Burn-In	✓	✓	✓
After Burn-In (ABI) Final RF Testing	✓	✓	✓
PDA % RF Test Comparison	✓	✓	✓
TCA Testing	HRT & HRM only	HRT & HRM only	HRT & HRM only
Low Temperature Operation		✓	✓
After Low Temperature Operation RF Testing		✓	✓
High Temperature Bake		✓	✓
Thermal Adhesion Test		✓	✓
Bondability Test		WBI or G only	WBI or G only
Solderability Test		✓	✓
Pre Burn-In (PBI) RF Testing		✓	✓
Life Test 1000 hour Burn-In		✓	✓
After Burn-In Life Test (ABIL) RF Test			✓
Pre-Qual. Burn-In (QBI) RF Test			✓
Qualification 1000 hour Stepped Pulse Burn-In			✓
After Qual. Burn-In (AQBI) RF Testing			✓

Samples and lot data can be retained at EMC rather than shipped for 5 years for a single data retention fee of \$500 or sample retention fee of \$1,000. Customized SCDs can be provided with Customer Cross Reference for \$1,500.